

# **k12<sup>™</sup> Skills Arcade**

**Customized Instructional Resources**

**Master Answer Key**

# SKILLS TEST ANSWER KEY

## Language Arts Skills Test

- 1–5. Student titles will vary. See that student has given an appropriate, accurate title to each:  
Something such as:
- The Biggest Painting
  - So Much Music!
  - The Most Sunken Treasure
  - A Productive Painter
  - The Largest Cake Ever
  - Answers will vary some. Most have to do with large numbers or records.
  - longest dancing dragon
  - limbo stick
  - longest dance
  - most exhausting dance
  - 1991
  - Florida
  - Answers will vary.
  - Answers will vary.
  - hearing
  - You usually do not think of “hearing” sun.
  - dog’s toenails, heels on dance floor
  - lightning, seashells
  - 3 of these: crashing, cracking, click, snapping, buzzing,
- boom,  
scraping,  
pitter, cracks,  
whispers,  
rumble, roar,  
chopping
- Answers will vary.
  - mad
  - asteroids, boots on Matterhorn, Paul Bunyan chopping
  - terrible, awful, boring
  - person was awakened from a peaceful slumber
  - He doesn’t like it.
  - P, S, M, A
  - A
  - I
  - M, P
  - P, A
  - S
  - E
  - 4, 5, 2, 3, 1
  - Answers will vary. See that student follows the pattern accurately.
  - yes
  - 3
  - Knighthood Revisited
  - The Adventure Store or Decked Out Company
  - Decked Out Company
  - The Adventure Store
  - yes
  - \$120
  - The Adventure Store, Little Egypt
  - yes
45. natron  
46. You’ll have to be tied . . .  
*and*  
Your dinner will float . . .
- a
  - b
  - Answers will vary.
  - 1
  - 4
  - 3
  - 2
  - c
  - outside a dwelling on and below a balcony
  - Answers will vary.
  - Answers will vary. Check for accuracy.
  - j
  - k
  - g
  - n
  - p
  - c
  - h
  - o
  - m
  - l
  - d
  - e
  - borscht
  - a vicar
  - flotsam
  - a mariner
  - no
  - savory
  - crude
  - terrified
  - absence
  - snatched
  - 80–81. Answers will vary.
  - g
  - h
  - d
  - k
  - t
  - s
  - p
  - o
  - m
  - b
92. e  
93. f  
94. b  
95. c  
96. e  
97. d  
98. g  
99. l  
100. b  
101. e  
102. j  
103. k  
104. i  
105. g  
106. a  
107. d  
108. a  
109. b  
110. g  
111. i  
112. c  
113. buried  
114. heard  
115. threw  
116. towed  
117. straight  
118–121. Answers will vary. See that student makes real words.
- b
  - b
  - shipwreck
  - sunburn
  - insurance
  - anchor
  - anemometer
  - annual
  - meteorite
  - transparent
  - accept
  - 133–135. Answers will vary. See that student writes 2 correct meanings for each word chosen.
  - j
  - g (or b)
  - a
  - h
  - m
  - k
  - l
  - f
144. n  
145. c  
146. crocodile (others are sea animals)  
147. camera (others are compound words)  
148. artichoke (others are plurals)  
149. tentacles  
150. goose  
151. freeze  
152. snow  
153. argument  
154. surfer  
155. ie  
156. ei  
157. ie  
158. ei  
159. ei  
160. ie  
161. ous  
162. ant  
163. ible  
164. ius  
165. ete  
166. el  
167. ance  
168. tion  
169. al  
170. ate  
171. erupt  
172–177. energy, coughed, surprise, scuba, cider, babysitter
- no
  - yes
  - no
  - no
  - yes
  - no
  - yes
  - radios
  - monkeys
  - loaves
  - messes
  - butterflies
  - geese
  - Atlantic
  - Jupiter
  - Michigan
  - Wednesday
  - Thanksgiving
196. pianoes  
197. wierd  
198. notbook  
199. magecal  
200. subbmarine  
201. terrifick  
202. arithmatic  
203. elegend  
204. astronot  
205. vegetables, sugar, lettuce, tomatoes, noodles  
206. pilot  
207. people  
208. caught  
209. molecule  
210. llama  
211. laughter  
212. again  
213. appear  
214. enough  
215. tongue  
216. mosquito  
217. odor  
218. opposite  
219. loneliness  
220. length  
221. please  
222. almost  
223. necessary  
224. Circle: wreath, expel, seize, apologize, oxygen, serious, excellent, quartet, strength, gravity, zero  
225. Adopt  
226. accept  
227. angles  
228. thorough  
229. diary  
230. cereal  
231. overdue  
232. pried  
233. horse  
234. break  
235. Freak  
Accidents  
Reported On  
Public  
Beaches  
236. Doctor Does Surprise  
Operation

## Skills Test Answer Key

|                     |                   |                           |                                 |
|---------------------|-------------------|---------------------------|---------------------------------|
| 237. Ski Season     | 288. slimiest     | Manuel                    | limb, let the cat               |
| Canceled Due        | 289. best         | 313. d                    | out of the bag,                 |
| To Dangerous        | 290. less         | 314. c                    | spill the beans,                |
| Ice Storm           | 291. worst        | 315. b                    | goose is                        |
| 238. Two Hundred    | 292. earlier      | 316. b                    | cooked, get                     |
| Homes Lost in       | 293. more often   | 317. b                    | your foot out of                |
| Tornado             | 294. most quickly | 318. a                    | your mouth,                     |
| 239. Elephant       | 295. would        | 319. a, b, c              | mad as a hatter                 |
| Receives Gold       | 296. any          | 320. c                    | <b>Task 11:</b> Words           |
| Medal               | 297. anyone       | 321. d                    | that students                   |
| 240. F              | 298. ever         | 322. a                    | eliminate may                   |
| 241. C              | 299. under        | 323. b                    | vary. Statements                |
| 242. R              | 300. into         | 324. a                    | or words in ( )                 |
| 243. F              | 301. across       | 325. b                    | are not                         |
| 244. S              | 302. behind you   | 326. c                    | necessary and                   |
| 245. Sam            | 303. around the   | Writing Tasks             | should be                       |
| 246. bears          | flowers           | Answers will vary         | deleted.                        |
| 247. chipmunk       | 304. beneath your | on most of the            | Corrected                       |
| 248. crashed        | bed               | writing tasks. There      | paragraph                       |
| 249. could catch    | 305. will not     | are no right or           | should read:                    |
| 250. watched, blew  | 306. they are     | wrong answers for         | Dear <u>Editor</u> :            |
| 251. ADJ            | 307. I have       | Tasks 2, 3, 6, 8, 9,      | (In my opinion,)                |
| 252. ADJ            | 308. we would or  | 10, and 12.               | I <u>believe</u> that the       |
| 253. N              | we had or we      | Answers may vary          | new <u>miniature</u>            |
| 254. V              | should            | some on Tasks 4, 5,       | golf <u>course</u>              |
| 255. N              | 309. our, always, | and 11.                   | (which the city                 |
| 256. ADV            | creates,          | Award points to           | has built) owned                |
| 257. spiders, beds, | delicious,        | students based on:        | by the city                     |
| pepper, soup        | meals,            | • how thoroughly          | should change                   |
| 258. Friday, Billy  | favorite, once,   | they completed            | its rules. It does              |
| 259. fox's teeth    | week,             | the task                  | not make <u>sense</u>           |
| 260. foxes' teeth   | marshmallows      | • if they followed        | to refuse kids                  |
| 261. campers'       | , dessert         | directions                | under 18 to                     |
| shirts              | 310. Camp,        | • the mechanical          | come unless                     |
| 262. skunk's tail   | Sunday,           | correctness of            | they are with                   |
| 263. They           | Friday, July      | their writing             | adults. I thought               |
| 264. She            | 311. Counselor,   | <b>Task 1:</b> order—7,   | the city <u>built</u> this      |
| 265. him            | Joe, Lisa         | 4, 1, 5, 6, 3, 2          | <u>course</u> to <u>attract</u> |
| 266. them           | 312. July 15      | <b>Task 4:</b> Answers    | kids and give                   |
| 267. rowed          | Dear Mom and      | may vary.                 | them something                  |
| 268. swam           | Dad,              | 1. I found an old         | good to do in                   |
| 269. fell or is     | I am having the   | sandwich sitting          | the evenings.                   |
| falling             | best time at      | on top of the             | <u>This</u> is a                |
| 270. will fly       | this camp!        | shelf in the              | <u>wonderful</u>                |
| 271. wore           | You won't         | closet.                   | activity for kids,              |
| 272. wrote or will  | believe how       | 2. On the radio,          | but you are                     |
| write or are        | well I'm          | we heard about            | keeping them                    |
| writing             | doing. We         | the robber who            | away. Most                      |
| 273. fainted        | have terrible     | was caught.               | teenagers want                  |
| 274. voted          | food, lots of     | <b>Task 5:</b> These      | to go out (for an               |
| 275. is             | mosquitoes,       | words may be              | activity) with                  |
| 276. should         | and grumpy        | crossed out.              | their friends, not              |
| 277. is             | counselors.       | 1. totally or whole       | their parents!                  |
| 278. have           | Doesn't it        | 2. three-sided            | Whose bad idea                  |
| 279. V              | sound great? I    | 3. In my opinion,         | was this? (I                    |
| 280. ADV            | think I saw an    | or I think                | protest!) I hope                |
| 281. ADJ            | alien, and I      | not at all, or            | this rule will be               |
| 282. N              | fell out of the   | even a bit                | changed soon.                   |
| 283. V              | canoe three       | <b>Task 7:</b> Figurative | Sincerely,                      |
| 284. ADJ            | times. How        | language                  | Adam                            |
| 285. ADV            | much longer       | includes bad              |                                 |
| 286. faster         | can I stay?       | apple, burned             |                                 |
| 287. farthest       | Your loving son,  | up, out on a              |                                 |

# SKILLS EXERCISES ANSWER KEY

## units 22–23

- |      |       |
|------|-------|
| 1. B | 7. J  |
| 2. F | 8. K  |
| 3. D | 9. H  |
| 4. A | 10. I |
| 5. C | 11. G |
| 6. E | 12. L |

## unit 24

- |          |         |
|----------|---------|
| 1. Jamie | 4. Jess |
| 2. Jo    | 5. Jeri |
| 3. Jeri  |         |

## unit 25

Answers will vary.

## unit 26

- fairies
- rainbows
- boas & black panthers
- dig to the pit of the Earth
- bunny
- stars
- a time machine
- the prehistoric air
- anything
- winged unicorns' backs
- in your heart
- c
- Answers will vary.
- Answers will vary.

## unit 27

- 4 lbs
- no
- carabiners
- tent, carabiners
- Climber's Shop
- \$59
- 3910 Abby Lane
- Climb of Denali
- Mountain Supply
- Camping, Ltd.
- 2
- 552-9900
- Mountain Store
- \$75
- 60°

## unit 28

Answers will vary somewhat. This is the general idea of the meaning of the proverbs.

- Things get wasted when you hurry too much.
- If you don't act, you may lose your opportunity.
- Take advantage of an opportunity.
- If you take care of something right

away, it will save work later.

- There's something good about everything that seems bad.
- Someone who keeps busy doesn't get stuck.
- If you don't try something, you'll never gain anything.
- Fish rot in three days, and people get tired of visitors.
- Fools don't think before they rush into something; smart people do.
- If you tell a secret, it won't get kept.
- Pay attention to what you have, not what you might have.
- Don't count on something until you have it.
- Don't change your plan while you're in the middle of it.
- You can't make someone do what you want them to do.

## unit 29

Answers will vary somewhat. This is the general idea of the meaning of the proverbs.

- Are you fooling me?
- She is acting crazy.
- We're in trouble.
- You're not saying anything.
- Leave me alone.
- He's boring.
- Be quiet.
- I'm going to have to give in to you.
- I am mad at you about something.
- Don't tattle on your friends.
- I slept really soundly.
- I took a chance.
- She told a secret.
- She said something embarrassing.
- Time goes quickly.
- I thought the test was easy.
- The accident was the last thing I could handle.
- The kids are annoying me.
- I barely passed.
- I was shocked.

## unit 30

Answers will vary for 1, 2, 6, and 7.

- slipped a cut, stabbed
- one last drop of water
- could not take another step, could not say a word

## unit 31

Answers will vary some. Main ideas should be generally close to these:  
 Thursday, May 18: I am going to hunt for mermaids, and I'm excited.  
 Saturday, May 20: Legend says that

mermaids were women of Ireland who were banished from earth to the sea.

Tuesday, May 22: Many people believe in the existence of sea serpents.

Friday, May 25: I think I saw a mermaid today.

## units 32–33

Character descriptions: Answers will vary.

Exact wording of story elements will vary.

Theme: mystery

Characters: Madeline, Countess, Porter, Doctor, Mystery Man, Robber, Mrs.

Matisse, Sleeping Man

Setting: Train—Orient Express

Plot: A little girl notices many mysterious things on a train. After the lights go out, a dog and a porter are missing and some other things are changed.

Point of View: third person (narrator who is not a character)

## unit 34

- no
- Zurich, Basil, Bern
- Drop 2 or Drop 3
- no
- Tues and Fri
- no
- Drop 2
- no
- 2
- 4

## unit 35

- 1
- 2, 3
- poor visibility, cold, control in the wind
- visibility, dampness, control in the wind
- probably good
- possibly cancel or postpone the race

## unit 36

Answers will vary.

## unit 37

- |         |          |
|---------|----------|
| 1. R,P  | 10. I    |
| 2. E,M  | 11. E,M  |
| 3. I, M | 12. A, P |
| 4. S    | 13. A, P |
| 5. I    | 14. M    |
| 6. E    | 15. P    |
| 7. I    | 16. A    |
| 8. A, S | 17. PN   |
| 9. A    |          |

**unit 38**

Order of numbers for line placement:

1. 4, 1, 5, 2, 3
2. 2, 1, 5, 3, 4 or 5, 1, 2, 3, 4
3. 2, 5, 4, 3, 1
4. 1, 3, 5, 2, 4 or 1, 4, 5, 2, 3
5. 5, 1, 4, 3, 2 or 1, 5, 4, 3, 2

**unit 39**

- |      |      |
|------|------|
| 1. a | 5. b |
| 2. c | 6. c |
| 3. c | 7. c |
| 4. b | 8. b |

**unit 40**

- |      |                        |
|------|------------------------|
| 1. F | 7. F                   |
| 2. T | 8. T                   |
| 3. T | 9. F                   |
| 4. T | 10. Answers will vary. |
| 5. F |                        |
| 6. F |                        |

**unit 41**

Purposes will vary somewhat.

1. c—Purpose: tell readers how Talula deserves to be a star
2. a—Purpose: discourage would-be stars from going to Nashville
3. b—Purpose: inform readers of some news
4. b—Purpose: instruct reader about neon lights

**unit 42**

1. 40 days
2. dries it out
3. 20 or more
4. organs
5. brain
6. putting it in 3 coffins
7. Answers will vary.

**unit 43**

Answers will vary.

**unit 44**

- |              |               |
|--------------|---------------|
| 1. 3         | 6. guitar     |
| 2. 5         | 7. car        |
| 3. 1         | 8. \$132,000  |
| 4. \$341,000 | 9. 6          |
| 5. \$370,260 | 10. \$722,260 |

**unit 45**

1. Shun Hing Square
2. Petronas Towers
3. Baiyoke II Tower
4. Amoco Building, T & C Tower
5. Empire State Building
6. World Trade Center
7. John Hancock Building
8. Empire State Building
9. Baiyoke II Tower
10. Petronas Towers

**unit 46**

- |      |       |
|------|-------|
| 1. H | 8. F  |
| 2. B | 9. G  |
| 3. D | 10. G |
| 4. B | 11. E |
| 5. C | 12. E |
| 6. D | 13. G |
| 7. A | 14. H |

**unit 47**

- |      |       |
|------|-------|
| 1. d | 9. o  |
| 2. i | 10. e |
| 3. g | 11. k |
| 4. h | 12. b |
| 5. m | 13. f |
| 6. n | 14. j |
| 7. l | 15. c |
| 8. a |       |

**unit 48**

1. Georgio's
2. drawings of flying machines
3. Charlie, Alicia
4. *The Last Supper*
5. Charlie
6. Florence
7. Georgio
8. Answers will vary.

**unit 49**

Answers will vary.

**unit 50**

1. fry it for lunch
2. feed it to a fish
3. take it swimming
4. put it in a jewelry box
5. avoid it
6. explore it
7. find an answer to it
8. dance it
9. bake it
10. show it off
11. slide on it
12. make music on it
13. make friends with it
14. send it to school
15. pour water through it
16. hire it

**unit 51**

Answers may vary somewhat.

1. intended
2. washed; huge
3. bridge
4. tornado
5. tossed; storm
6. dragged; hid
7. ocean; earthquake
8. tail; ship
9. crashed; sank
10. mystery

**unit 52**

Answers will vary somewhat. See that student has the general idea of the meaning of each figurative language expression.

It's raining cats and dogs.—It's raining hard.

You drive me up a wall.—You're really bothering me.

Go out on a limb.—Take a chance.

I have a bone to pick with you.—I'm mad at you about something.

You've spilled the beans.—You've told something you should not have.

Don't jump the gun.—Don't be in such a hurry.

She's lost her head!—She's acting out of control.

My car's a real lemon!—My car has lots of problems; it was a bad deal.

**unit 53**

Answers will vary somewhat. See that student has the general idea of the meaning of each figurative language expression.

Jay likes to ham it up.—Jay likes to act wild and crazy.

What a backseat driver!—Someone else in the car tells the driver how to drive.

She's got her nose in a book.—She's reading and ignoring everything else.

Don't lose your cool.—Don't lose your temper.

This will cook your goose!—This will really make you mad.

It's the last straw!—It's the last of many things to go wrong.

Keep a lid on it!—Keep from getting mad or being too noisy or wild.

You've put your foot in your mouth again.—You've said something stupid or embarrassing.

**unit 54**

- |              |                  |
|--------------|------------------|
| 1. minority  | 6. copyright     |
| 2. diagnosis | 7. circumference |
| 3. simmer    | 8. hurricane     |
| 4. annuals   | 9. translucent   |
| 5. principal | 10. accept       |

**unit 55**

Answers may vary somewhat.

1. feet
2. sunscreen
3. pocket
4. breathe
5. eat
6. lake, pool, or ocean
7. cupboard, cabinet, or china cabinet
8. break
9. trees

## Skills Exercises Answer Key

10. temperature
11. water
12. book
13. feet, paws, or legs
14. broom

### unit 56

Answers may vary some, depending on student's opinions.

1. no
2. yes
3. no
4. no
5. yes
6. no
7. yes
8. Answers will vary.
9. Answers will vary.
10. yes
11. yes
12. throw out
13. no
14. Answers will vary.
15. no

### unit 57

Answers may vary some, depending on student's opinions.

- |        |         |
|--------|---------|
| 1. yes | 9. no   |
| 2. no  | 10. yes |
| 3. no  | 11. yes |
| 4. no  | 12. no  |
| 5. no  | 13. no  |
| 6. no  | 14. no  |
| 7. yes | 15. no  |
| 8. no  |         |

### unit 58

- |      |       |
|------|-------|
| 1. b | 8. a  |
| 2. c | 9. a  |
| 3. b | 10. a |
| 4. b | 11. c |
| 5. b | 12. a |
| 6. c | 13. b |
| 7. b |       |

### unit 59

- |      |       |
|------|-------|
| 1. a | 8. a  |
| 2. b | 9. b  |
| 3. a | 10. a |
| 4. c | 11. b |
| 5. c | 12. b |
| 6. a | 13. a |
| 7. b |       |

### unit 60

Answers will vary. Check to see that student has formed real words.

### unit 61

Down

1. abalone
2. ecology

3. habitat
4. grotto
7. tsunami
8. mariner
10. weed

Across

5. trough
6. ichthyologist
9. flotsam
11. archipelago
12. fjord
13. sea

### unit 62

Answers will vary, depending on which word student chooses to change.

Most likely possibilities are:

Tom's Nightmare

Eat at Bob's Diner—

Great (or good, or wonderful) Food

S.S. *Sunset*

Danger, Deep Water!

Please Do Not Throw Trash On The

Beach

No Sleeping On The Beach

Beach Open 9 A.M. – 9 P.M.

Mystery at Crooked River

The Biggest Dragon

Burglar Steals Jewelry

Earthquake Hits at Noon

### unit 63

- |             |             |
|-------------|-------------|
| 1. destroy  | 7. divide   |
| 2. meek     | 8. mischief |
| 3. receive  | 9. express  |
| 4. cheerful | 10. timid   |
| 5. calm     | 11. tender  |
| 6. defend   | 12. proceed |

### unit 64

Check to see that student has drawn the correct items.

### unit 65

excitement—act of being excited or

exciting

perilous—full of peril

rocky—full of rocks

stormy—like a storm

frighten—to make afraid

nervous—full of nerves

horrific—pertaining to horror

seaward—toward the sea

hardship—state of being hard

fearful—full of fear

courageous—full of courage

survivor—one who survives

hopeless—without hope

dangerous—full of danger

sailor—one who sails

droplets—small drops

terrify—to cause terror

lostness—state of being lost

troublesome—full of trouble

heroism—act of being a hero

### unit 66

Top answer: The Hole in the Pail

- |                |               |
|----------------|---------------|
| 1. bury        | 9. beat       |
| 2. straight    | 10. taught    |
| 3. threw       | 11. buy; some |
| 4. caught      | 12. cents     |
| 5. seas        | 13. feet      |
| 6. foul        | 14. flew      |
| 7. pail; break | 15. flee      |
| 8. pier; hour  |               |

### unit 67

Top answer: a wail

- |                 |                    |
|-----------------|--------------------|
| 1. see; sea     | 7. weak; week      |
| 2. son; sun     | 8. not; knot       |
| 3. heard; herd  | 9. ate; eight      |
| 4. steal; steel | 10. close; clothes |
| 5. Would; wood  | 11. toe; tow       |
| 6. groan; grown | 12. sore; soar     |

### unit 68

Definitions may vary slightly.

1. small sea creature; to grouch
2. down
3. track
4. a fruit; an outing with another person; a particular day
5. spring
6. fire
7. a flying insect; to soar up in the air
8. spot
9. rain; a place to wash
10. pen
11. container; sport where people hit each other with gloves
12. tick

### unit 69

"Fragile" is the word that does not fit. Description of classification categories may vary.

1. lizard; mammals or animals in the sea
2. chowder; things floating in the ocean
3. bandit; things on a boat
4. wind; kinds of precipitation
5. lobster; kinds of birds
6. mumble; loud noises or screams
7. ruler; computer parts
8. wrench; kitchen utensils or equipment
9. scorpion; sea animals
10. cactus; things you see on a beach
11. receiver; parts of a book
12. spaghetti; parts of the body
13. redwood; kinds of fish
14. attorney; church leaders
15. stumble; words that mean jump
16. duck; baby animals
17. hazard; kinds of storms
18. frog; reptiles

**unit 70**

Answers will vary, particularly the connotations. Denotations are listed here:

- Pirate—someone who robs ships
- Sunburn—irritation or blistering of the skin from the sun
- Shark—a kind of dangerous fish
- Storm—bad weather accompanied by wind and some precipitation such as rain or snow
- Island—land surrounded on all sides by water

**unit 71**

Answers will vary depending upon what information students are able to find.

1. Greek word meaning “made from barley”
2. named after a vegetarian named Sylvester Graham; means “made from wheat flour”
3. named after Frankfurt, Germany, where they were first made
4. Latin meaning “round swelling”
5. German word meaning “wafer” (Supposedly first “invented” when a knight in armor sat on a pancake.)
6. Portuguese and Spanish word for a plant in Guinea
7. French word meaning “thin blade of a sword,” because the omelettes were thin
8. Spanish word meaning “round cake”
9. named after city of Tangiers
10. French word meaning “moss”
11. Latin word meaning “head,” because cabbage is shaped like a head
12. Aztec word meaning “bitter water”
13. Italian word meaning “string”
14. Portuguese and Spanish word meaning “residue or leftover substance”

**unit 72**

Answers may vary.

1. tentacles
  2. pasture, barn, or field
  3. sail or sailboat
  4. hear
  5. surfer
  6. mice
  7. hot
  8. lifeguard
  9. dull
  10. heat
  11. feathers
  12. snow
- 13–18. Answers will vary. Check to see that the pairs form accurate analogies.

**unit 73**

Answers will vary on the guesses. Defi-

nitions may vary somewhat also. Definitions should be similar to these:

1. to renew or refresh
2. stirred up and muddy
3. changeable
4. twisting, winding
5. not moving
6. gloomy
7. explosive
8. unbelievable
9. rude or crude
10. tiny

**unit 74**

Answers may vary depending upon what resources student has available.

1. Greek
2. Hindu or Indian
3. French
4. Latin
5. French
6. French
7. Persian
8. Latin
9. Latin
10. Latin
11. Latin
12. Greek
13. Persian
14. Latin
15. Spanish or Latin
16. German
17. German
18. Greek
19. Indian, Hindu, or Persian
20. Spanish
- 21–25. Answers will vary somewhat.
21. “I found it!”
22. a dead-end street
23. appetizer
24. porch with a roof
25. school for young children

**unit 75**

Answers will vary.

Check to see that student has formed real compound words.

**unit 76**

- |              |               |
|--------------|---------------|
| 1. squid     | 7. insurance  |
| 2. dessert   | 8. anemometer |
| 3. buoy      | 9. flotsam    |
| 4. astronomy | 10. complaint |
| 5. antonyms  | 11. meteorite |
| 6. biennial  |               |

**unit 77**

These words should be circled:

- tommorrow
- vollunteer
- bennefit
- memmory
- proffessor

- animal
- attenddance
- basketball
- catterpillar
- bannana
- telescope

**unit 78**

- |      |       |       |       |
|------|-------|-------|-------|
| 1. a | 6. a  | 11. a | 16. b |
| 2. b | 7. a  | 12. b | 17. a |
| 3. b | 8. a  | 13. a | 18. b |
| 4. b | 9. a  | 14. a |       |
| 5. a | 10. b | 15. a |       |

**unit 79**

Correct words that should be colored:

- |                |                |
|----------------|----------------|
| 1. hitchhiker  | 8. floodlight  |
| 2. lighthouse  | 10. sandpaper  |
| 3. nightmare   | 12. headache   |
| 4. nighttime   | 16. greenhouse |
| 5. countryside | 17. heartbreak |
| 6. grandmother | 18. quicksand  |
| 7. wheelchair  | 22. seaside    |

**unit 80**

Incorrect words to be circled and respelled correctly:

- Friday, June 13: circus, laughing, celery, emergency, coughed
- Saturday, June 14: phone, phony, judge, citizenship, ridiculous
- Sunday, June 15: ghastly, ghosts, celebration, mischief, cider
- Monday, June 16: physical, certainly, energized, surprised, photographs
- Tuesday, June 17: caught, cyclone, patience, scuba

**unit 81**

- |                |               |
|----------------|---------------|
| 1. children    | 14. echoes    |
| 2. noises      | 15. donkeys   |
| 3. messes      | 16. women     |
| 4. wishes      | 17. radios    |
| 5. societies   | 18. keys      |
| 6. cottages    | 19. potatoes  |
| 7. addresses   | 20. athletes  |
| 8. chefs       | 21. lunches   |
| 9. butterflies | 22. foxes     |
| 10. heroes     | 23. counties  |
| 11. loaves     | 24. nests     |
| 12. chiefs     | 25. attorneys |
| 13. geese      |               |

**unit 82**

- |        |            |          |
|--------|------------|----------|
| 1. ite | 9. ive     | 16. edge |
| 2. ive | 10. ist    | 17. age  |
| 3. ise | 11. ile    | 18. ist  |
| 4. ish | 12. ize    | 19. age  |
| 5. ish | 13. ish    | 20. age  |
| 6. ize | 14. age    |          |
| 7. ish | 15. ege or |          |
| 8. ise | age        |          |

## Skills Exercises Answer Key

### unit 83

- |               |                |
|---------------|----------------|
| 1. jealous    | 9. cautious    |
| 2. circus     | 10. radius     |
| 3. focus      | 11. outrageous |
| 4. tremendous | 12. luscious   |
| 5. melodious  | 13. Venus      |
| 6. generous   | 14. nervous    |
| 7. marvelous  | 15. cactus     |
| 8. conscious  |                |

### unit 84

- |                |                |
|----------------|----------------|
| 1. distant     | 10. importance |
| 2. evident     | 11. appliance  |
| 3. hydrant     | 12. elephant   |
| 4. independent | 13. restaurant |
| 5. pleasant    | 14. science    |
| 6. elegant     | 15. absence    |
| 7. vacant      | 16. insurance  |
| 8. excitement  | 17. attendance |
| 9. ignorant    | 18. evidence   |

### unit 85

- |               |                |
|---------------|----------------|
| 1. impossible | 11. magician   |
| 2. legal      | 12. icicle     |
| 3. quarrel    | 13. prevention |
| 4. vacation   | 14. candle     |
| 5. musician   | 15. cancel     |
| 6. visible    | 16. tradition  |
| 7. adorable   | 17. channel    |
| 8. cushion    | 18. travel     |
| 9. carnival   | 19. cancel     |
| 10. fatal     | 20. reversible |

### unit 86

- |        |         |
|--------|---------|
| 1. ate | 10. ate |
| 2. ate | 11. ate |
| 3. ate | 12. eat |
| 4. eat | 13. ate |
| 5. ate | 14. ate |
| 6. ate | 15. ete |
| 7. ete | 16. ate |
| 8. ate | 17. ate |
| 9. ite | 18. ite |

### unit 87

Misspelled words are:

- |                 |                   |
|-----------------|-------------------|
| 1. supernatural | 12. disappear     |
| 5. completely   | 13. preschool     |
| 6. feverish     | 16. musical       |
| 10. biography   | 20. advertisement |
| 11. magical     |                   |

### unit 88

Words with no silent letters are:

envy, burglar, bumpy, quiver, automatic, erupt, coconut

### unit 89

Words spelled correctly are:

- slippery
- soccer
- stomach

- suspect
- serious
- stereo
- seventh
- strengthen
- scissors
- hissing
- surely
- successful
- special
- seize
- squirm
- studio

### unit 90

William Weightlifter  
Wretched Ray  
Worst Woodpecker  
Weird Wanda Worm  
Wrestler Rachel  
Weekend Warrior

- awful
- wasteful
- window sill
- weight
- wonderful
- weapons
- which or witch
- we're
- knowledge
- wreath
- whisper
- wrapping
- whipped or wiped
- Wednesday
- wrinkled
- weakness

### unit 91

- |             |        |
|-------------|--------|
| 1. ea       | 11. ue |
| 2. ou       | 12. ai |
| 3. ai       | 13. eo |
| 4. ui or ai | 14. ie |
| 5. ou       | 15. ou |
| 6. au       | 16. au |
| 7. ai       | 17. ea |
| 8. ou       | 18. ua |
| 9. ea       | 19. au |
| 10. oi      | 20. au |

### unit 92

Correct words to be circled:

bizarre  
unique  
kazoo  
scheme  
opaque  
gnome  
karate  
bough  
enough  
karate  
vague

amnesia

Incorrect words (corrected):

Des Moines  
Connecticut  
llama  
tongue  
vacuum  
bronchitis  
mustache  
pneumonia  
zigzag

### unit 93

Sentences will vary. Check to see that the words found on this page are spelled correctly in student's writing.

### unit 94

Rule # 1

Circle: pianos, solos

Rule # 2

Circle: weird, ancient, neither, height, foreign

Rule # 3

Circle: pastime

Rule # 4

Circle: wholly, truly

Rule # 5

Circle: noticeable, manageable

### unit 95

- |              |                |
|--------------|----------------|
| 1. meteor    | 9. solar       |
| 2. galaxy    | 10. comet      |
| 3. Jupiter   | 11. atmosphere |
| 4. astronomy | 12. Saturn     |
| 5. rotate    | 13. astronaut  |
| 6. shuttle   | 14. orbits     |
| 7. revolve   | 15. planets    |
| 8. rocket    | 16. launch     |

### unit 96

Menus 4 and 7 have all words spelled correctly.

Menu #1: 2 mistakes—vegetable, molasses

Menu #2: 3 mistakes—appetizers, coconut, crumb

Menu #3: 5 mistakes—cranberries, spinach, salad, sugar, broccoli

Menu #5: 5 mistakes—pasta, lamb, celery, pineapple, bologna

Menu #6: 1 mistake—radishes

Menu #8: 6 mistakes—cheese, biscuits, apricot, chocolate, sundae, banana

### unit 97

Words spelled wrong:

wiggle  
wobble  
stumbling



crawl  
revolve  
slinking  
frolic  
cartwheel  
scramble  
bouncing  
escape  
climbing  
flying  
leaping  
wandered  
twirling  
shaking

**unit 98**

Words spelled wrong:

multiplication  
Pennsylvania  
hippopotamus  
encyclopedia  
bumblebee

Student choices and definitions will vary.  
Check to make sure that students have spelled the big words correctly.

**unit 99**

Incorrect words to be corrected:

- |                         |                             |
|-------------------------|-----------------------------|
| 1. about                | 29. length                  |
| 2. almost               | 30. listen                  |
| 3. already              | 32. many                    |
| 4. alright or all right | 33. often                   |
| 5. awful                | 34. open                    |
| 6. because              | 35. people                  |
| 7. busy                 | 36. please                  |
| 8. candle               | 37. really                  |
| 9. chief                | 39. since or sense or cents |
| 11. color               | 40. stopped or stooped      |
| 14. drawer              | 41. toward                  |
| 15. empty               | 42. truly                   |
| 17. fifth               | 43. thought                 |
| 19. forget              | 44. through                 |
| 20. forty               | 45. very                    |
| 21. first               | 46. which or witch          |
| 24. hoping              | 48. would                   |
| 25. hurried             |                             |
| 27. knives              |                             |

**unit 100**

Cans that should be colored:

- #1, #2, #3, #4, #6,  
1. 3 mistakes  
2. 3 mistakes  
3. 3 mistakes  
4. 5 mistakes  
5. 0 mistakes  
6. 4 mistakes

**unit 101**

- Report All Accidents Immediately
- No Horses Allowed on Beach
- Marshmallow Roasting on Wednesdays Only

- Public Beach No Lifeguard
- Summer is Canceled Until Further Notice
- No Swimming to the Island
- Beware! Dangerous Sea Animals
- Life Preservers Required on Boats
- Water is Occupied by Sea Monsters

**unit 102**

- ADJ—The; ADJ—wooden; N—boat; V—sailed; ADV—smoothly
- ADJ—The; ADJ—north; N—wind; V—blew; ADV—hard
- ADJ—A; ADJ—colorful; N—sail; V—flapped; ADV—gracefully
- ADV—Often; ADJ—a; ADJ—brown; N—squirrel; V—chews; N—acorns; ADJ—the; ADJ—boat; N—dock
- ADJ—The; N—deer; V—were walking; ADV—slowly; ADJ—the; N—shore
- ADV—Sometimes; ADJ—a; ADJ—curious; N—raccoon; V—rides; N—one; ADJ—the; N—sailboats
- ADJ—The; ADJ—goofy; N—camper; V—fell; ADV—awkwardly; ADJ—the; N—water
- ADJ—Two; N—campers; V—swam; ADV—quickly; V—rescue; ADJ—their; N—friend

**unit 103**

- Proper—Lisa; Common—key, outhouse
- Proper—Friday, Billy; Common—key, raccoon
- Proper—Lisa; Common—trail, snake, path
- Common—coyote
- Common—chipmunk, stump, key
- Common—owl, key
- Common—bear, berries, patch
- Common—rabbit
- Proper—Blue River; Common—shore, beaver, tree
- Proper—Lisa; Common—skunk, way
- Proper—August; Common—tracks, ones
- Common—tracks; door

**unit 104**

- |             |            |
|-------------|------------|
| 1. shines   | 7. watches |
| 2. sail     | 8. build   |
| 3. row      | 9. roast   |
| 4. fish     | 10. falls  |
| 5. drink    | 11. skips  |
| 6. splashes | 12. swim   |

Stories at bottom will vary.

**unit 105**

- watched
- sprayed
- fished

- chewed
  - hovered
  - shared
  - talked
  - suggested
  - proposed
  - moved
  - floated
  - enjoyed
- Stories at bottom will vary.

**unit 106**

- The, slimy, gooey
  - The, crunchy, purple, a
  - old, moldy, the
  - the, clumsy, a, French, dandelion
  - The, muddy, thick, cold, Maria's
  - the, a, tiny, tasty, frog, his
  - the, strange, sticky
  - Hungry, the, weird, grilled, cheese
- BOTTOM: terrible; strange; slimy; moldy  
Menu ideas will vary.

**unit 107**

- Immediately
- slowly
- patiently
- down; carefully
- firmly
- quickly
- loudly, softly
- closely
- early
- Now, cheerfully, clearly

**units 108–109**

- in
- across
- inside
- under
- between
- down

Bottom half of page—answers will vary.

**unit 110**

- wasn't = was not
  - I'll = I will
  - hasn't = has not
  - it's = it is
  - weren't = were not
  - didn't = did not
  - wasn't = was not
  - wouldn't = would not; he'd = he would
  - He'd = he would
  - Don't = do not
- Sentences at bottom will vary.

**unit 111**

Words to be capitalized:  
Storm, Hits, Camp, Lookout,  
There, Tuesday, Fourth, July, Around,  
Camp, Lookout, Luckily, Hailstones, One,  
Maria, The, We, Several, Nick, Isaac,

## Skills Exercises Answer Key

Manuel, The, A, Dr., Smith, Camp,  
Lookout, When, Isaac, I, The

### unit 112

Words to be capitalized:  
Bigfoot, Sighting, On, Friday, July,  
Bigfoot, Camp, Lookout, Heidi, Hoggatt,  
Maria, Lopez, They, Heidi, Maria,  
Outside, The, Camp, Lookout, The,  
There, Bigfoot, Pacific, Northwest, The,  
Oregon, Halloween

### unit 113

Words to be capitalized:  
Tornado, Hits, A, Camp, Lookout,  
Wednesday, June, Tornadoes, United,  
States, Luckily, However, An, Fortunately,  
The, Justin, Loftus, From

### unit 114

Check student papers for proper punctu-  
ation.

### unit 115

Answers will vary.

### unit 116

Answers will vary.

### unit 117

Answers will vary.  
Note: For most of the activities on pages  
118–141, the answers will vary. Check to  
see that students have completed the  
tasks with reasonable responses that fit  
the directions given. Answers are listed  
below for the pages that have specific  
answers or answers that may vary only  
somewhat.

### unit 118

Answers will vary, but the following  
words are the least active ones in the  
sentences and should most likely be  
replaced:

- |               |           |
|---------------|-----------|
| 1. came, went | 6. looked |
| 2. walked     | 7. were   |
| 3. came       | 8. came   |
| 4. were       | 9. were   |
| 5. ate        | 10. used  |

### unit 119

There are many possible answers for  
most items. These are some possibilities:

- |                |                |
|----------------|----------------|
| 1. threatening | 9. treacherous |
| (or deafening) | 10. fearless   |
| 2. damp        | 11. moldy      |
| 3. perilous    | 12. nervous    |
| 4. plummets    | 13. cramped    |
| 5. foolish     | 14. awestruck  |
| 6. jagged      | 15. swirling   |
| 7. sturdy      | 16. battered   |
| 8. rushing     |                |

### unit 120

Answers will vary.

### unit 121

Answers will vary.

### unit 122-129

Answers will vary.

### unit 130–131

Errors are underlined and corrected  
below. Statements in ( ) are not necessary  
and could be deleted. Students may  
make other editing decisions.

Dear Editor:

Why are you saying negative things in  
your magazine about the new city tax on  
food in all the restaurants? What is your  
problem? The tax is for a good cause.

Just a small amount on each meal adds  
up to thousands of dollars for our parks.  
This is really good for kids. It gives us a  
wonderful swimming pool, too. This is a  
small price to pay for so much good  
stuff. (The cost is really pretty small.)

And our restaurants have good food. If I  
buy a \$4.00 sandwich, it only costs 20¢  
extra for the tax. Even if someone gets a  
very expensive meal—say \$50.00, the  
5% tax still only adds \$2.50. That's not  
bad! It gives us nice, clean places to play  
soccer and softball.

Sincerely,  
Whitney

Dear Editor:

No one has asked the kids! Everyone  
in the town is talking about year-round  
school. All the adults keep having hear-  
ings and meetings to discuss this. Some  
committee is making a plan for school to  
go through the summer. I am really mad!  
(I am on a dance team.) If something is  
being planned that changes our whole  
lives, especially taking away our  
summers, it is unfair to go ahead without  
talking to the students. We have opin-  
ions, too. We should be the ones to  
decide this, since it is all about our  
education.

Sincerely,  
Madder Than A Wet Hen

### unit 132-133

Answers will vary.

### unit 134-135

Letter from Robert Lozenge:  
making too many bones: a frog in my  
throat; raining cats and dogs; I'm pretty  
burned up; off my rocker.

ANSWERS: barking up the wrong tree;  
up a creek; in the pink  
Letter from Veronica Lobes:  
tongue-tied; stick my neck out; exercising  
my head off; pulling your leg; down in  
the dumps

ANSWERS: I'll be a monkey's uncle!  
takes the cake; blows my mind; I am  
stumped; driving you up a wall; quick  
as a wink

Letter from Sam Troubles:  
straight from the horse's mouth; fit to be  
tied; from sunup to sundown; a chip off  
the old block!

ANSWERS: crying your eyes out; pass  
the buck; you scream your head off;  
burn rubber

### unit 136-140

Answers will vary.

### unit 141

Answers may vary some, but should be  
along these lines:

1. While I was riding The Corkscrew for  
the third time, a stomachache both-  
ered me.
2. When I was a child, my dad took me  
on roller coasters every weekend.
3. I'll write in the magazine about the  
pirates who robbed ships.
4. The wind picked up while we were  
riding The Plunge.
5. The clown sold cold ice cream bars  
with sprinkles to the children.
6. The manager banned some teenagers  
from The Terror Train because they  
broke the rules.
7. The kids worried that their mother  
would never recover after fainting on  
the ride through The Python's Den.
8. After their teacher fell off her seat  
into The Raging River, the students  
tried to pull her back into the raft.
9. To save money for a day at the  
amusement park, Tim and Tom went  
to work for Mrs. Burton cleaning her  
garage.
10. Last, I visited the very scary Haunted  
Mansion which was located beside  
the ticket booth.

sors, spray bottle handle  
pulley—window shade

**unit 221**

1. ice, water, wind, gravity (instead of arguments, cold hearts, anger, hurt feelings)
2. water (heartbreak)
3. Glaciers (Ex-girlfriends)
4. water (tears)
5. water (sadness)
6. channel (romance)
7. deposited (discouraged)
8. delta (down in the dumps)
9. winds (wishes)
10. soil (sighs)
11. ice (hope)
12. Gravity (Misery)
13. dunes (desperate)
14. ice (valentines); glacier (corsage)
15. rocks (hearts)

**units 222–223**

1. igneous, metamorphic, sedimentary
2. igneous
3. pumice
4. geodes
5. nonfoliated
6. harden
7. igneous
8. fossils
9. ripple marks
10. metamorphic
11. sandstone, limestone, shale, siltstone
12. foliated
13. sedimentary
14. dark
15. metamorphic, sedimentary
16. clastic
17. intrusive
18. slate, marble, quartzite, anthracite
19. sedimentary
20. granite, pumice, feldspar, basalt, felsite
21. nonclastic
22. anthracite
23. extrusive
24. compaction
25. cementation
26. conglomerate
27. breccia
28. shale
29. caves
30. corals

**unit 224**

1. tornado warning
2. windy
3. dew
4. ice storm
5. drought
6. front
7. rain

8. fog
9. sunshine

**unit 225**

1. atmosphere
2. weather
3. 300 miles
4. atmosphere to the Earth
5. the Earth's surface
6. direction from which they come
7. water vapor
8. lower
9. front
10. drops
11. far above
12. cold air
13. anemometer
14. north
15. weather
16. high

**unit 226**

Information students gather will vary according to reference materials used.

**unit 227**

Magnets 2, 3, 5, 6, 11, 12 have false statements. See that these are colored and that student has drawn a path for the mouse that touches these and no others.

**unit 232**

1. Missing numbers for countries from top to bottom:  
101; 27; 26; 50; 9; 15; 35; 5; 8; 9; 11;  
7; 7; 10; 17; 17; 15; 3; 15; 8
2. Bulgaria, Brazil, Great Britain, Belarus
3. Poland & Spain
4. China, Italy, Ukraine
5. France
6. Belarus
7. China
8. Germany
9. 17
10. Canada

**unit 233**

1. Missing numbers for countries from top to bottom:  
26; 8; 8; 20; 5;  
3; 3; 9; 4; 1; 2;  
1; 4; 2; 3; 1; 3;  
1; 2; 0; 0; 0
2. 183
3. 119
4. 64
5. Russia
6. Canada
7. Germany
8. Canada
9. Italy
10. Netherlands

**unit 218**

1. Sk-M
2. R
3. C
4. D
5. N
6. C
7. Sk-M
8. R
9. Sk-M or D
10. C
11. Sk-M
12. D
13. N
14. Sk-M
15. D & S
16. S
17. Sk-M
18. C
19. R
20. Sk-M
21. D
22. R
23. S & D
24. C
25. S
26. Sk-M
27. Sk-M
28. D
29. N
30. S
31. S
32. Sk-M
33. S

**unit 219**

Check student pages to see that lines are drawn to correct matching bones and muscles.

BOTTOM:

1. voluntary
2. involuntary
3. tendons

**unit 220**

Answers may vary some, as students may find simple machines within other items.  
inclined plane—ramp  
wheel & axle—wheels on cart, wheels on rat  
wedge—scissors, screwdriver, cheese screw—screws, faucet handles  
levers—screwdriver, balancing scale, scis-

## Skills Exercises Answer Key

### unit 234

#### Down

- 40,973
- 151,600
- 900,901
- 71,800,003
- 610,390
- 450,009

#### Across

- 300,050,008
- 2,600,900
- 207
- 12,008,035
- 8,351
- 909
- 300,300

### unit 235

- Order of numbers in front of names:  
11; 7; 8; 2; 6; 4; 9; 5; 3; 10; 1; 12
- Order of numbers  
in list: 5; 4; 6; 2; 1; 9; 7; 3; 8

### unit 236

- 11,000
- 270
- 2,000
- 360
- 900
- 7,490
- 15,000
- 5,000
- 800,400
- 750,000
- 1,000,000
- 101,330
- 61,000
- 775,000
- 10,990
- 770
- 98,900
- 610
- 600
- 56,000
- 900
- 20,000
- 600,000
- 1,510

### unit 237

- 7 tens
- 8 hundreds
- 8 tens
- 5 thousands
- 3 thousands
- 0 hundreds
- 5 ten thousands
- 9 thousands
- 1 ten
- 9 ten thousands
- 6 tens
- 8 hundreds
- 8 hundreds

- 0 tens
- 5 hundreds

### unit 238

- 11,345
- 9,974
- 1,023
- 11,111
- 1,816
- 10,970

### unit 239

- 271
- 217
- 14
- 42
- 274
- 35
- 407
- 5,297
- 3,702
- 581
- 5,654
- 7,275
- 721,320
- 12,138

### unit 240

- 230 m
- 2,300 m
- 930 m
- 111,000 m
- 5,050 m
- 888,800 m
- 7,170,000 m
- 80,480 m
- 2,800 m
- 250,000 m
- 440 m
- 44 m
- 22 m
- 100 m
- 10 m
- 33 m
- 880 m
- 10 m
- 70 m
- 6,107 m

### unit 241

- Different answer is 201; all other answers are 200.
- Different answer is 795; all other answers are 792.
- Different answer is 96; all other answers are 144.
- Different answer is 588; all other answers are 506.
- Different answer is 630; all other answers are 670.

### unit 242

#### Across

- 293
- 371
- 34
- 93
- 404
- 4554
- 239
- 926

#### Down

- 350
- 419
- 354
- 301
- 369
- 369
- 486
- 306
- 447

### unit 243

- 500
- 400
- 855
- 5
- 77
- 22
- 275
- 200
- 13
- 18
- 50
- 25
- Loretta

### unit 244

- K
  - AT
  - SPE
  - G
  - DS
  - I
  - E
  - N
- Speed skating
- N
  - L
  - OW
  - L
  - D
  - HI
- Downhill

### unit 245

Correct fractions to color: 3, 4, 5, 6, 10, 11, 13, 16, 19, 20

- $\frac{3}{4}$
- $\frac{1}{2}$
- $\frac{4}{5}$
- $\frac{1}{2}$
- $\frac{1}{4}$
- $\frac{3}{4}$
- $\frac{1}{2}$
- $\frac{6}{11}$
- $\frac{4}{5}$
- $\frac{2}{5}$

### unit 246

- $\frac{19}{10}$  or  $1\frac{9}{10}$
- $\frac{6}{9}$  or  $\frac{2}{3}$
- $\frac{7}{13}$
- $\frac{4}{6}$  or  $\frac{2}{3}$
- $\frac{15}{20}$  or  $\frac{3}{4}$
- $\frac{6}{11}$
- $\frac{5}{5}$  or 1
- $\frac{15}{16}$

9.  $\frac{10}{25}$  or  $\frac{2}{5}$
10.  $\frac{2}{12}$  or  $\frac{1}{6}$
11.  $\frac{29}{6}$  or  $4\frac{5}{6}$
12.  $\frac{71}{100}$
13.  $\frac{16}{30}$  or  $\frac{8}{15}$
14.  $\frac{25}{10}$  or  $2\frac{5}{10}$  or  $2\frac{1}{2}$

**unit 247**

1.  $11\frac{6}{8}$  or  $11\frac{3}{4}$
2.  $26\frac{5}{8}$
3.  $17\frac{2}{5}$
4.  $10\frac{1}{4}$
5.  $11\frac{4}{4}$  or 12
6.  $2\frac{4}{5}$
7.  $10\frac{7}{6}$  or  $11\frac{1}{6}$
8.  $10\frac{3}{6}$  or  $10\frac{1}{2}$
9.  $\frac{4}{5}$
10.  $10\frac{1}{11}$
11.  $6\frac{4}{9}$
12.  $19\frac{4}{5}$
13.  $24\frac{4}{5}$
14.  $14\frac{2}{6}$  or  $14\frac{1}{3}$
15.  $5\frac{10}{10}$  or 6

**unit 248**

1. .0183
2. 1.083
3. .115
4. .55
5. 99.7
6. 13.4
7. 500.005
8. 9.78
9. .97
10. 10.83
11. 108.3
12. .234
13. 5.555
14. .978
15. 978.3
16. 11.501

**unit 249**

- Trick 1  
7; 8; 4; 2; 5; 3; 1; 6
- Trick 2  
3; 6; 8; 7; 2; 5; 1; 4
- Trick 3  
3; 5; 6; 8; 2; 1; 4; 7
- Trick 4  
4; 1; 6; 5; 3; 8; 2; 7
- Trick 5  
7; 6; 8; 1; 3; 5; 2; 4
- Trick 6  
4; 5; 6; 2; 3; 1; 7; 8
- Trick 7  
7; 5; 1; 3; 8; 4; 2; 6

**unit 250-251**

1. a, c, 50 cups
2. c, d, 64.4 meters
3. a, c, 13°F
4. a, c, 294 spectators
5. b, d, 7 seconds

6. a, b, 22 snowballs
7. a, d, 25/30 or 5/6
8. b, c, 38
9. b, c, d, Barry—63 seconds
10. b, c, 112

**unit 252**

1. 225
2. 44
3. 1891
4. 10
5. 15
6. 382
7. 3
8. 3,000

**unit 253**

- Blue:
1. 183
  2. 74
  3. 8
  4. 100
  5. 1/4
  6. 480
  7. 80
  8. 144
- Red:
9. 12,000
  10. 10.08
- White:
11. 7/20
  12. 20,000
  13. 14
  14. 0.1
  15. 3/5
- Yellow:
16. 6,000
  17. 249
- Purple:
18. 120
  19. 0.8
  20. 6
  21. 12
  22. 20
  23. 11.2

Orange:

24. 1,200
25. 4,800

Green—all others

Colored picture shows parachutes.

**unit 254**

1. 1 team member gets muscles.
2. 1 girl's hair is orange.
3. 1 flower is yellow.
4. 3 hats are green.
5. 7 of the 20 shoes are red.
6. 2 shoes are blue.
7. 4 shirts are blue.
8. Half of the rope is red.
9. 1 shirt has stars.
10. 12 of the 20 socks are purple.
11. 3 shorts are orange.

12. 1 shirt has stripes.
13. 1 pair of long pants is brown.
14. 1 elbow has a bruise.
15. 3 of the 20 knees have bandages.
16. 1 team member gets a new hat.
17. There is mud under 8 of the team members.
18. Bees are stinging 2 team members.
19. Untied shoelaces are on 3 shoes.
20. A dog is pulling on the shirt of 1 team member.

**unit 255**

Answers may vary on 4 and 5.

1. \$133.00
2. 630 feet
3. \$21.00
4. 11 (plus herself)
5. 4 (plus 1 for Sadie)
6. 80

**unit 256**

Missing numbers in chart: Biff 4; Bob 18;

Ben 5; Bud 3; Barb 18; Bonnie 0

Totals read: 29, 31, 17, 32, 109

1. 29
2. Ben
3. Biff, Bob, Barb
4. Bonnie
5. Bonnie
6. Bud
7. Ben
8. Biff and Bonnie
9. Twist
10. Straddle
11. Back
12. Straddle
13. Ben
14. Twist
15. Bonnie
16. 109

**unit 257**

1. pizza
2. coffee
3. ice cream
4. hot pretzel
5. nachos
6. pizzas
7. pennant
8. popcorn
9. pretzels
10. drink
11. drinks
12. hot dogs

**unit 258**

1. yes
2. \$49.90
3. bridle, blanket, breeches
4. \$170.80
5. \$23.25
6. 2

## Skills Exercises Answer Key

- \$255.35
- curry brush
- bridle and helmet
- Answers will vary.

### unit 259

- $17 - 4 + 10 = 23$
- $4 \times 2 \times 2 = 16$
- $56 - 6 \div 2 = 25$
- $1/2 + 1 \times 2 = 3$
- $5 - 2 + 3 = 6$
- $1 + 2 \times 3 = 9$
- $8 \times 3 - 4 = 20$   
(or  $8 - 3 \times 4 = 20$ )
- $10 \div 2 \times 3 = 15$
- $20 \times 4 - 80 = 0$
- $29 + 10 - 13 = 26$
- $100 \times 100 + 1 = 10,001$
- $55 - 50 \times 5 = 25$
- $13 + 13 - 13 = 13$   
(or  $13 - 13 + 13 = 13$ )
- $81 \div 9 \times 6 = 54$

### unit 260

- D
- C
- A
- F
- B
- E
- G

8–10. Check to see that students have accurately drawn the three kinds of line pairs.

### unit 261

There are several possible answers for this page, particularly for line segments, points, and angles. Check to see that the student has traced or colored at least three of each in the correct color.

### unit 262

- F, K, Q
- B, H, J, L
- A, G, O, P, E, C

### unit 263

Answers will vary because different groupings of shapes may create different kinds of triangles. Check student designs to see that triangles are colored correctly.

### unit 264

Check to see that student has colored design accurately.

- arrow
- archery

### unit 265

Note: In labels for line segments and arcs, the letters may be written as shown below or they may be reversed in each case

(for example, a line segment may be labeled TQ or QT).

- N
- TQ, MK
- NH, NT, NQ, NK, NM
- Any two of these: RS, MK, TQ, JQ
- Any four of these:  
HT, HJ, HK, HQ,  
HS, HR, HM  
TJ, TK, TQ, TS,  
TR, TM, TH  
JK, JQ, JS, JR,  
JM, JH, JT  
KQ, KS, KR, KM,  
KH, KT, KJ  
QS, QR, QM, QH,  
QT, QJ, QK  
SR, SM, SH, ST,  
SJ, SK, SQ  
RM, RH, RT, RJ,  
RK, RQ, RS  
MH, MT, MJ, MK,  
MQ, MS, MR

Bottom: Check student circle to see that all 9 elements have been included and properly labeled.

### unit 266

Spheres (blue):

- baseball, golf ball, ping pong ball,
- bowling ball, balls at ends of barbell

Cubes (red):

- Step-Up box, energy bar box

Rectangular Prisms (yellow):

- shoe box, stop sign, balance beam

Cylinders (purple):

- chalk, tennis ball can, bar on barbells

Cones (green):

- liniment container, Grizzlies
- megaphone

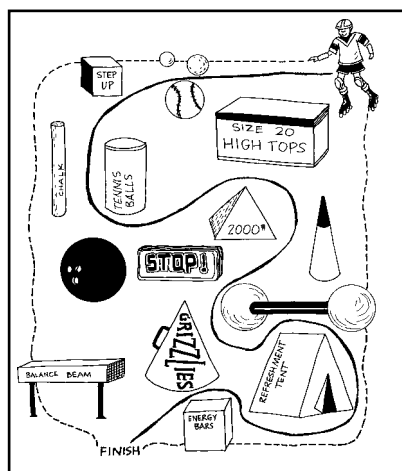
Pyramid (orange):

- 2000# weight

Triangular Prism (brown):

- tent

See diagram below for correct red path:



### unit 267

Top question: neither

- C
- C
- S
- S
- C
- C
- S
- S
- C

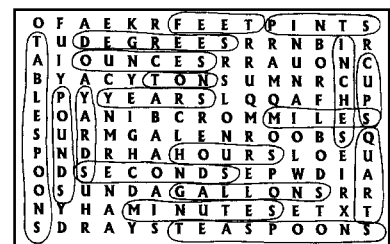
### unit 268

- E
- J
- D
- B
- 12
- A, E, F, G, I, J
- B, C, D, H, K
- yes
- yes
- C
- 1
- G and I

### unit 269

Students should have the following words circled in the puzzle.

- years
- miles
- minutes
- ounces
- feet
- quart
- pounds
- hours
- tablespoons
- yards
- degrees
- seconds
- pints
- cups
- inches
- ton
- teaspoons
- gallons



### unit 270

Circle these item numbers as correct: 2, 3, 4, 6, 7, 10, 12, 13, 16

Corrected answers are:

- liters (or liters, milliliters, deciliters, and kiloliters)

5. 2 kilometers
8. 1000
9. 1000
11. 2000
14. 1000
15. 10,000

**unit 271**

Measurements will vary. Check student answers to make sure they are reasonable and that they are written and labeled correctly with U.S. Customary units.

**units 272–273**

- archery area ..... P = 154 m
- boxing area ..... P = 80 ft
- tennis court ..... P = 228 ft
- softball diamond ..... P = 260 ft
- track and field area ..... P = 600 m
- swimming pool ..... P = 200 m
- track ..... P = 160 m
- soccer field ..... P = 380 yds
- volleyball court ..... P = 54 m

**unit 274–275**

1. 8 days
2. Wednesday
3. Monday, February 2
4. 3
5. 12
6. yes
7. March 18
8. February 5
9. Tuesday
10. 4
11. 2 weeks and 3 days OR 17 days
12. 22
13. Thursday
14. March 13

**unit 276**

1. ballpoint pens
2. jet fighters
3. Hugh
4. 14,802
5. Sam
6. Angelika
7. nutcrackers, airsickness bags, gnomes & pixies
8. underwear
9. 15
10. 9
11. Ove Nortstrom (piggy banks)
12. answers will vary

**unit 277**

1. lightbulbs
2. July
3. less
4. shoelaces
5. less
6. 3
7. safety pins

8. stuffed animals
9. 2
10. 6
11. cash registers
12. 52

**unit 278**

- |      |       |
|------|-------|
| 1. F | 6. T  |
| 2. F | 7. F  |
| 3. T | 8. F  |
| 4. T | 9. T  |
| 5. F | 10. F |

**unit 279**

- |        |               |
|--------|---------------|
| 1. 18  | 7. Sat        |
| 2. 33  | 8. Fri        |
| 3. 42  | 9. 45         |
| 4. Sat | 10. Tue, Thur |
| 5. Fri | 11. 34        |
| 6. Sun | 12. 11        |

**unit 280**

1. roller coaster
2. fastest talker
3. most tattoos, pancake-eating
4. 85%
5. 85%
6. 20
7. 50
8. 10
9. time in a tree
10. yes

**unit 281**

1. 9
2. 10
3. 5
4. August
5. Feb and Oct
6. 4
7. 0
8. Aug–Oct
9. Oct–Dec
10. 8
11. 3
12. 6

**units 282–283**

1. 27
2. 10
3. 13.42
4. 14
5. 85
6. 15 min, 50 sec
7. about 2 sec
8. 780
9. 12.02 sec
10. 45.9 sec

**unit 284**

1. yes
2. yes
3. no

4. no
5. no
6. yes
7. yes
8. no
9. yes
10. (9, 7)

11–14. Check student graphs to see that mosquitoes are correctly drawn at these locations.

**unit 285**

1. (2, 8), (4, 9), and (–2, 2)
2. (7, 8) and (–4, 4)
3. (4, 3) and (–3, 8)
4. (6, 5) and (–6, 9)
5. (6, 3) and (–5, 6)
6. (7, 1), (–6, 2), (–4, 0), and (–2, 6)

**unit 286**

Check student grids to see that the drawing is a snail.

**unit 287**

1. yes
  2. (8, 9)
  3. (10, 2)
- 4–18. Check student grids to see that items are drawn at correct location.

**unit 288**

1. 2; heads, tails
2. 6
3. 3
4. 2
5. 2
6. 1
7. 1
8. 4
9. 4
10. 3
11. 5
12. C
13. D
14. A & E

**unit 289**

1. 1
2. 1/2
3. 1
4. 0
5. 0
6. 1/6
7. 1
8. answers will vary
9. 1/50
10. 0
11. 3/6 or 1/2
12. answers will vary

# SKILLS TEST ANSWER KEY

## Language Arts

### Skills Test

- |   |  |  |
|---|--|--|
| 1. You usually do not think of "hearing" sun.   | 42. m  | 100. comet   |
| 2. dog's toenails, heels on dance floor   | 43. l  | 101. cabbage   |
| 3. lightning, seashells   | 44. d  | 102. spaghetti   |
| 4. 3 of these: crashing, cracking, click, snapping, buzzing, boom, scraping, pitter, cracks, whispers, rumble, roar, chopping | 45. e  | 103. tentacles   |
| 5. Answers will vary.   | 46. crude  | 104. goose   |
| 6. mad  | 47. terrified  | 105. freeze  |
| 7. boring   | 48. absence  | 106. snow  |
| 8. asteroids, boots on Matterhorn, Paul Bunyan chopping   | 49. snatched   | 107. argument  |
| 9. terrible, awful, boring  | 50-51. Answers will vary.  | 108. surfer  |
| 10. Every line begins with "I hear."  | 52. g  | 109. erupt   |
| 11. P, S, M, A  | 53. h  | 110-115. energy, coughed, surprise, scuba, cider, babysitter |
| 12. A   | 54. d  | 116. no  |
| 13. I   | 55. k  | 117. yes   |
| 14. M, P  | 56. t  | 118. no  |
| 15. P, A  | 57. s  | 119. no  |
| 16. S   | 58. p  | 120. yes   |
| 17. E   | 59. o  | 121. no  |
| 18. 4, 5, 2, 3, 1   | 60. m  | 122. yes   |
| 19. Answers will vary. See that student follows the pattern accurately.   | 61. b  | 123. worried   |
| 20. yes   | 62. e  | 124. wished  |
| 21. 3   | 63. f  | 125. argued  |
| 22. Knighthood Revisited  | 64. b  | 126. froze   |
| 23. The Adventure Store or Decked Out Company   | 65. c  | 127. forgot  |
| 24. Decked Out Company  | 66. e  | 128. Atlantic  |
| 25. The Adventure Store   | 67. d  | 129. Jupiter   |
| 26. yes   | 68. g  | 130. Michigan  |
| 27. \$120   | 69. l  | 131. Wednesday   |
| 28. The Adventure Store, Little Egypt   | 70. b  | 132. Thanksgiving  |
| 29. yes   | 71. e  | 133. pianos  |
| 30. natron  | 72. j  | 134. wierd   |
| 31. Sounds thrilling, doesn't it?   | 73. k  | 135. notbook   |
| 32. You'll have to be tied . . .<br><i>and</i><br>Your dinner will float . . .  | 74. i  | 136. magecal   |
| 33. b   | 75. g  | 137. subbmarine  |
| 34. j   | 76. a  | 138. terrifick   |
| 35. k   | 77. d  | 139. arithmetic  |
| 36. g   | 78. a  | 140. elegend   |
| 37. n   | 79. b  | 141. astronot  |
| 38. p   | 80. g  | 142. vegetables, sugar, lettuce, tomatoes, noodles           |
| 39. c   | 81. i  | 143. pilot   |
| 40. h   | 82. c  | 144. people  |
| 41. o   | 83. b  | 145. caught  |
|   | 84. b  | 146. molecule  |
|   | 85. shipwreck  | 147. llama   |
|   | 86. sunburn  | 148. laughter  |
|   | 87-89. Answers will vary. See that student writes 2 correct meanings for each word chosen. | 149. again   |
|   | 90. j  | 150. appear  |
|   | 91. g (or b)   | 151. enough  |
|   | 92. a  | 152. separate  |
|   | 93. h  | 153. absence   |
|   | 94. m  | 154. criticize   |
|   | 95. k  | 155. weather   |
|   | 96. l  | 156. automatic   |
|   | 97. f  | 157. license   |
|   | 98. n  | 158. tongue  |
|   | 99. c  | 159. mosquito  |



160. odor  
 161. opposite  
 162. loneliness  
 163. length  
 164. please  
 165. almost  
 166. necessary  
 167. Circle: wreath, expel, seize, apologize, oxygen, serious, excellent, quartet, strength, gravity, zero  
 168. surprise  
 169. balloon  
 170. marshmallow  
 171. calendar  
 172. Adopt  
 173. accept  
 174. angles  
 175. thorough  
 176. diary  
 177. cereal  
 178. overdue  
 179. pried  
 180. horse  
 181. break  
 182. Freak Accidents Reported On Public Beaches  
 183. Doctor Does Surprise Operation  
 184. Ski Season Canceled Due To Dangerous Ice Storm  
 185. Two Hundred Homes Lost in Tornado  
 186. Elephant Receives Gold Medal  
 187. I  
 188. EX  
 189. I  
 190. IM  
 191. D  
 192. F  
 193. C  
 194. R  
 195. F  
 196. S  
 197. Sam  
 198. bears  
 199. chipmunk  
 200. crashed  
 201. could catch  
 202. watched, blew  
 203. ADJ  
 204. ADJ  
 205. N  
 206. V  
 207. N  
 208. ADV  
 209. spiders, beds, pepper, soup  
 210. Friday, Billy  
 211. compasses  
 212. knives  
 213. tomatoes  
 214. deer  
 215. families  
 216. mouse  
 217. child  
 218. city  
 219. fox's teeth  
 220. foxes' teeth  
 221. campers' shirts  
 222. skunk's tail  
 223. They  
 224. She  
 225. him  
 226. them  
 227. rowed  
 228. swam  
 229. fell or is falling  
 230. will fly  
 231. wore  
 232. wrote or will write or are writing  
 233. fainted  
 234. voted  
 235. screamed  
 236. jumped  
 237. crept  
 238. is  
 239. should  
 240. is  
 241. have  
 242. V  
 243. ADV  
 244. ADJ  
 245. N  
 246. V  
 247. ADJ  
 248. ADV  
 249. faster  
 250. farthest  
 251. slimiest  
 252. best  
 253. less  
 254. worst  
 255. earlier  
 256. more often  
 257. most quickly  
 258. would  
 259. any  
 260. anyone  
 261. ever  
 262. worms  
 263. towels  
 264. pranks  
 265. hoarse  
 266. hole  
 267. meet  
 268. sense  
 269. our, always, creates, delicious, meals, favorite, once, week, marshmallows, dessert  
 270. Camp, Sunday, Friday, July  
 271. Counselor, Joe, Lisa

272.

July 15

Dear Mom and Dad,

I am having the best time at this camp! You won't believe how well I'm doing. We have terrible food, lots of mosquitoes, and grumpy counselors. Doesn't it sound great? I think I saw an alien, and I fell out of the canoe three times. How much longer can I stay?

Your loving son,  
Manuel

273. d

274. c

275. d

276. a

277. c

**Writing Tasks**

Answers will vary on most of the writing tasks. There are no right or wrong answers for Tasks 2, 4, 5, 6, 7, 8, 9, and 11. Answers may vary some on Tasks 3 and 10.

Award points to students based on:

- how thoroughly they completed the task
- if they followed directions
- the mechanical correctness of their writing

**Task 1:** order—7, 4, 1, 5, 6, 3, 2

**Task 3:** Answers may vary.

1. I found an old sandwich sitting on top of the shelf in the closet.
2. On the radio, we heard about the robber who was caught.

**Task 10:** Words that students eliminate may vary. Statements or words in ( ) are not necessary and should be deleted. Corrected paragraph should read:

Dear Editor:

(In my opinion,) I believe that the new miniature golf course (which the city has built) owned by the city should change its rules. It does not make sense to refuse kids under 18 to come unless they are with adults. I thought the city built this course to attract kids and give them something good to do in the evenings. This is a wonderful activity for kids, but you are keeping them away. Most teenagers want to go out (for an activity) with their friends, not their parents! Whose bad idea was this? (I protest!) I hope this rule will be changed soon.

Sincerely,  
Adam

# SKILLS EXERCISES ANSWER KEY

## unit 20–21

---

1. escapade
2. soar
3. antics
4. fraternize
5. scrutinize
6. endeavor
7. venture
8. probe; comb
9. fantasy or mythical
10. great
11. culinary
12. scale
13. treacherous
14. mythical or fantasy
15. ancient
16. foreboding
17. colossal
18. lavish
19. unfathomable
20. future
21. elusive
22. legendary
23. ruins
24. bargain
25. engage
26. gander
27. remote
28. fiercest

## unit 22

---

1. ridiculous
  2. thrilled
  3. cave
  4. reached
  5. regret
  6. damp
  7. dangerous
  8. break, rest
  9. stop
  10. complaining
  11. upset, bothered
  12. evil, scary
- Predictions will vary.

## unit 23

---

Answers may vary somewhat from those listed below, but should have generally the same meaning.

1. certify—prove
2. render—make inoperable—unworkable
3. submit—obey
4. deploy—use
5. ingest—drinking
6. lardaceous—fatty or greasy
7. refuse—trash

8. prohibited—banned
9. attend—pay attention to disseminated—given out
10. banned—not allowed
11. tamper—interfere
12. excessive—too much chastened—scolded
13. citations—tickets
14. promptly—right away termination—end

## unit 24

---

### Facts are:

Visit *Mir* Space Station  
Travel to *Mir* by Space Shuttle  
Orbit the Earth—see fantastic sights!  
See the 6-port docking system.  
Explore the living and working spaces.  
Get fitted with your own space suit.  
Walk in space.  
All food and equipment provided.  
*Mir* means “peace.”  
We provide training!  
STAY 5, 10, or 15 days  
We won’t keep you as long as we kept Cosmonaut Aleksandr Laveikin. He stayed 326 days!  
*Mir* was launched in 1986 by the Soviet Union.  
Today it is maintained by Russia.  
Schedule  
See your Adventure Company Representative  
Health examination required.  
Must be at least 25 years of age.

### Opinions are:

You’ll be so glad you did this!  
Astronauts will enjoy your visit!  
You’ll have fun feeling weightless!  
You’ll love the food!  
No dangers or accidents will occur.  
You can afford it!  
All astronauts & cosmonauts want a chance to live on *Mir*!

## unit 25

---

1. halfpipe (snowboarding), aerial skiing, ski jumping
2. to fly farther
3. halfpipe (snowboarding)
4. 30%
5. downhill racing
6. ski jumping
7. aerial skiing and halfpipe (snowboarding)
8. NA

9. 1996
10. a U-shaped trench of snow
11. 66 yards

## unit 26

---

1. b
2. a
3. c

## unit 27

---

1. 107 inches
  2. his ox, Babe
  3. 47
- 4–9. Answers will vary.

## unit 28

---

Answers will vary.

## unit 29

---

1. The Paleo-Lyths
2. Till the Volcano Blows
3. Be a Little Boulder, Honey
4. I Dino If I Love You Anymore
5. You’re As Cuddly As A Woolly Mammoth
6. The Cave Dudes
7. I’ve Cried Pebbles Over You
8. Terri Dactyl
9. The Cro-Magnon Crooners
10. The Petro Cliff Trio
11. The Hard Rock Arena
12. 5
13. Tommy Shale
14. after dark
15. The Standing Stones

## unit 30

---

Students’ predictions will vary.

## unit 31

---

1. Answers will vary some. These may be noted.  
You begin to imagine . . .  
You are nervous, excited, impatient . . .  
You trust this rollercoaster . . .  
You are sure it will be safe . . .  
You don’t care how it works . . .  
You just want to get on!  
You feel like you are flying . . .  
You enjoyed every minute . . .  
Your stomach feels great . . .  
You want to ride again . . .
- 2–4. Answers will vary.

## unit 32

---

Students’ judgments will vary. Check the reasonableness of answers.

**unit 33**

Students' questions will vary. Check to see that the questions are fitting the character.

**unit 34**

Summaries will vary. Check to see that students have a complete, brief summary that contains the main ideas.

**unit 35**

Incorrect details are:

- caught in the depths of a terrible dungeon
- It seems he will have no chance of escape.
- wingless dragon
- back inside the castle
- a worried damsel
- chained to a pillar
- She is waiting for Sir Prance-a-lot.
- Here comes the dashing knight to the rescue!

Rewrite of story will vary. See that students have correct details.

**unit 36**

Order of numbers for line placement.

1. 3, 1, 6, 5, 2, 4
2. 2, 5, 4, 3, 8, 1, 7, 6
3. 2, 4, 7, 1, 3, 5, 6

**unit 37**

Look at student graphs to see that they show the following amounts.

1. Isabella II—35 years
2. Maria Theresa—40 years
3. Wu Chao—50 years
4. Victoria—64 years
5. Salote—47 years
6. Suiko—35 years
7. Elizabeth I—45 years
8. Elizabeth II—46 years as of 1998
9. Joanna I—38 years
10. Maria I—39 years
11. Wilhelmina—58 years

**unit 38**

Examine student drawings to see that they have followed directions accurately, or have students examine one another's drawings.

**unit 39**

Answers will vary.

**unit 40**

1. business or busyness
2. twelfth
3. surprise
4. cafeteria
5. calendar

6. balloon
7. embarrass
8. license
9. memory
10. banana
11. memorize
12. necessary
13. Florida
14. restaurant
15. marshmallow
16. recognize
17. receive
18. advertisement
19. trouble
20. vegetable

**unit 41**

Frannie has these correct:

1, 4, 5, 6, 8, 9, 10, 12, 14, 16, 17, 18, 19

Frankie has these correct:

2, 3, 4, 7, 8, 10, 11, 13, 15, 17, 20

A. Frannie

B. words # 4, 8, 10, 17

**unit 42**

Words to be corrected: (correct spelling)

2. carrot
4. pilot
5. molecule
6. volcano
8. doctor
9. opposite
12. memory
13. gorilla (or guerrilla)
12. octopus
13. October
15. scorpion
16. cocoon
18. mosquito
19. abdomen
20. dinosaur
23. odor

**unit 43**

1. unique
2. inquire
3. conquer
4. squash
5. banquet
6. equator
7. quickly
8. quiet
9. sequel
10. quilt
11. quartet
12. quizzes
13. aquarium
14. quarrel
15. frequently
16. question
17. equipment

**unit 44**

1. yummy
2. envy
3. magnify
4. rhythm
5. yolk
6. rhyme
7. guilty
8. yesterday
9. gravity
10. hyphen
11. chewy
12. synonym
13. oxygen
14. yogurt
15. mystery

**unit 45**

- |              |                |
|--------------|----------------|
| 1. expel     | 14. foxes      |
| 2. saxophone | 15. extreme    |
| 3. extinct   | 16. oxygen     |
| 4. Mexico    | 17. excuse     |
| 5. flex      | 18. exercise   |
| 6. excellent | 19. exterior   |
| 7. examine   | 20. flexible   |
| 8. exist     | 21. mixture    |
| 9. hexagon   | 22. exit       |
| 10. maximum  | 23. expect     |
| 11. exclaim  | 24. explode    |
| 12. exciting | 25. expressway |
| 13. next     |                |

**unit 46**

Correct phrases:

- adopt a pet
- Eat your celery!
- That's no excuse!
- cute cartoons on TV
- a custard pie
- an inspiring story
- I accept your present.
- walking on crutches
- Write in your diary.
- my red and white striped socks
- art hanging in galleries

**unit 47**

Across

1. prize
3. zipper
5. buzz
7. apologize
9. freezer
11. zero
13. blizzard
16. fizzle
17. jazz
18. cozy

Down

2. organize
4. squeeze

## Skills Exercises Answer Key

6. hazard
8. dozen
10. realize
12. lazy
14. dizzy
15. fizzy

### unit 48

1. submarine
2. microphone
3. extraordinary
4. rewrite
5. unicycle
6. hexagon
7. impossible
8. international
9. mislabel
10. transport
11. exclude
12. pregame
13. postholiday
14. antibacterial
15. semicircle
16. unfriendly

### unit 49

Words spelled correctly are:

- tragic
- scary
- generally
- completely
- explosion
- terrific
- agreement
- hardship
- disappointment
- different
- actor

### unit 50

1. ocean, D,C
2. iceberg, C,D
3. swim, C,D
4. octopus, D,C
5. lifeboat, D,C
6. vacation, C,D
7. money, D,C

### unit 51

Answers will vary depending upon what information student can find about the words.

1. named after G. W. G. Ferris, an American engineer
2. named after William Frisbee, a pie company owner
3. named after Mars, the Roman god of war
4. means "day of the moon"
5. Greek word meaning "messenger"
6. named after R. J. L. Guppy, a man who loved animals

7. named after the city of Cologne, which makes perfume; means "water of Cologne"
8. named after French botanist Pierre Magnol
9. named after President Theodore (Teddy) Roosevelt, who rescued a bear cub
10. from a French word that means "crane's foot"
11. named after a French acrobat, Jules Léotard, who wore tights for his acts
12. from a Greek word meaning "long-haired star"
13. from a Greek word for a plant that people used as a writing surface
14. named after Sardinia, an island off Italy
15. named after a state in Mexico
16. named after the explorer Amerigo Vespucci

### unit 52

Answers will vary slightly.

1. best
2. good
3. expensive
4. Aunt
5. crooked
6. buy; beautiful; new
7. heavy
8. permanent
9. generous
10. sturdy
11. unusual
12. strong

### unit 53

1. exciting
2. novice
3. deed
4. unbelievable
5. peril
6. amaze
7. huge
8. answer
9. drool
10. real
11. movement
12. mob
13. terror
14. diary
15. punish

### unit 54

1. carn
2. phobia
3. fug
4. mon
5. vis
6. aqua
7. act

8. flam
9. scend
10. dynam
11. dorm
12. tele
13. port
14. labor
15. phobia
16. port
17. phobia
18. scend

### unit 55

Top answers:

- 1–2. a lead or important person; shape with 5 points

Other answers will vary. Check to see that student has accurately illustrated 2 or more meanings of the three words chosen.

### unit 56

Answers may vary.

Check to see that student's definitions are similar and that items are correctly colored in the picture.

vessel—a ship or other floating vehicle—boat—blue

lunar—having to do with the moon—moon—yellow

luminous—shiny—moon, stars, or fire—orange

biped—an animal with two legs—any of the persons—red

savory—tasty—marshmallows—white

merriment—celebration—any of the dancers—green

pentapod—something with five feet or limbs—starfish—pink

gritty—sandy—sand—beige

murky—dark—water—gray

kindling—something used to start a fire—wood—brown

### unit 57

There are 24 examples of figurative language.

- cost me an arm and a leg;
- sun beating on me;
- pounding like drums;
- squawking as loud as a choir;
- chip off the old block;
- pretty as a picture;
- faster than greased lightning;
- dry as dust;
- dull as a doorknob;
- red-letter day;
- go bananas;
- blow her top;
- off her rocker;
- take the cake;
- breaking up ships like toothpicks;

scared stiff;  
 screaming bloody murder;  
 last straw;  
 Out of sight, out of mind;  
 absence makes the heart grow fonder;  
 quick as a wink;  
 make no bones about it;  
 wipeout;  
 deader than a doornail

**units 58–69, 71, 74, 76, 79**

Answers will vary. Check to see that students have completed the tasks with reasonable responses that fit the directions given.

**unit 70**

There may be more than one sequence of sentences that would make a clear report. Here is one possibility:

Farmer McCully called 911 at noon to report a loud roaring sound that was shaking the earth near his farm. I was in the area, so I raced to the farm. When I arrived, I found Farmer McCully's pigs looking shocked. Just then, I heard terrible screaming in addition to the loud roaring sound. I looked up in the sky toward the terrible noise. Unbelievably, a bathtub was whirling through the air. A young man in the tub was screaming for his life. Fortunately, the tub landed safely in the pig pen. No one was hurt, not even the pigs.

**unit 72–73**

Unrelated details are:

1. Judge Laws had just had a turkey club sandwich for lunch when the case began. Judge Laws coughed from a bad cold.
2. Anthony was wearing a suit and tie in court today.
3. Mrs. Grundy lives in a pink house on Blossom Street. She told the judge that her grandchildren visit her every Saturday. Mrs. Grundy has a cat.
4. He also buys a dozen sticky buns and two pumpkin pies.
5. Arthur Rush makes his living designing socks for the Shoes & Socks Emporium. Mr. Rush drives a Mustang and Judge Laws drives a Volkswagen.
6. The city has a population of 21,000. Her house has three stories.

**unit 78**

Answers will vary, but students should include details similar to the following examples:

**Sahara**—Catch a glimpse of a mirage.

Enjoy cool drinks in a green oasis.  
 Find out what it's really like to ride on a camel. Find plants and animals that survive on very little water. Watch the wind create dunes and patterns in the sand.

**Amazon**—Enjoy some unusually fine fishing. Get some close-up photos of big crocodiles. See some of the most beautiful tropical birds in the world. You might catch a glimpse of a cheetah or an anaconda. Experience a lush tropical rain forest first hand.

**Antarctica**—See for yourself the most mammoth ice shelf in the world. The sun will shine until midnight! Spend a whole day watching playful penguins. Climb on glaciers and photograph icebergs.

**unit 80**

Answers may vary slightly, as a choice between exclamatory and imperative statements is sometimes subjective.

1. I (?)
2. IM (.)
3. D (.)
4. D (.)
5. IM (.) or E (!)
6. IM (.)
7. E (!)
8. I (?)
9. I (?)
10. E (.) or IM (!)
11. D (.)
12. E (!)
13. D (.)

Camp Lookout is in Washington. Sentence examples will vary.

**unit 81**

10. tree house; is reached
9. coyote; howls
8. owl; hoots
7. Squirrels; jump
6. rope; hangs
5. Birds; have built
4. Moss; is growing
3. some; are falling
2. tree house; looks
1. ladder; shakes

**unit 82**

S, C, S, C, S, C  
 S, S, S, S, S

Carl needs to do this:  
 Take the chipmunk across the lake and

leave it. Go back, pick up the owl, take it across the lake, and leave it. Then pick up the chipmunk and bring it back across. Leave the chipmunk and take the marshmallows across the lake. Go back alone to pick up the chipmunk and bring it across the lake.

**unit 83**

Answers will vary when students expand fragments into sentences on numbers 2, 3, 4, 6, 8, and 9.

1. The boulders rolled slowly at first. They gathered speed soon after.
5. The boulders crushed plants. Animals scampered away quickly.
7. They gained speed. Over and over they rolled.
10. The boulders are approaching Camp Lookout. Will they stop in time?

**unit 84**

1. marshes
2. cities
3. compasses
4. holidays
5. songs
6. foxes
7. bushes
8. poles
9. bunches
10. branches
11. marshmallows
12. campers; bags

**unit 85**

1. sheep
2. mice
3. Echoes
4. children
5. potatoes
6. teeth
7. loaves; knives
8. trout
9. tomatoes
10. radios
11. feet
12. lives
13. moose

**unit 86**

Answers may vary some. Allow anything that makes sense.

1. tent's poles
2. skunk's babies
3. camper's compass
4. tree house's door
5. rabbit's ears
6. counselor's T-shirt
7. Bigfoot's footprints
8. fox's teeth

Sentences will vary.

## Skills Exercises Answer Key

### unit 87

1. flowers' petals
2. children's treasure map
3. cooks' aprons
4. mice's food
5. campers' sleeping bags
6. deer's tails
7. boats' sails
8. counselors' caps

### unit 88

These sentences have subject pronouns:

2. It
4. They
6. She
8. She
9. I
12. You

Sentences for bottom:

3. They were packing for their trip.
5. She had forgotten to include a flashlight.
7. She had packed too much.
10. She couldn't decide where to put her fishing gear.
11. It would not fit in the trunk of Maria's father's car.

### unit 89

1. us
2. him
3. her
4. them
5. us
6. it
7. us
8. them
9. me
10. them, us
11. him
12. us

Sentences at bottom will vary.

### unit 90

1. will go
2. will study
3. will bring
4. will try
5. will take
6. will be
7. will find
8. will fly
9. will look
10. will eat
11. will care
12. will hope

Stories at bottom will vary.

### unit 91

1. thought
2. saw
3. hid

4. grew
5. came
6. wore
7. ate
8. went
9. ran
10. flew
11. told
12. wrote

Sentences at bottom will vary.

### unit 92

Action verbs are:

noticed, appeared, scratched, wiggled, were playing, heard, whisper, crawled, sat, tried, was coming, noticed, did seem, attached, listened, creaked, opened, moved, hid, got, give, hid, heard, Give

Sentences at bottom will vary.

### unit 93

1. is
2. were
3. will
4. is
5. has
6. had
7. has
8. am
9. should
10. will
11. should
12. are; will

Check to see that student drawing follows maze accurately.

### unit 94

1. tiniest
2. larger
3. biggest
4. wettest
5. latest
6. slimiest
7. smallest
8. farthest
9. fattest
10. highest
11. longest
12. faster
13. slowest
14. fastest

Bottom: 1st—Maria  
2nd—Nick  
3rd—Isaac  
4th—Ann  
5th—Carl

### unit 95

1. most
2. more
3. worst
4. best

5. most
6. most
7. worst
8. most
9. most
10. more
11. most
12. worst (or best)

Sentences at bottom will vary.

### unit 96

1. more firmly
2. earliest
3. more cleverly
4. fastest
5. more skillfully
6. More often
7. more eagerly
8. more loudly
9. more busily
10. more quietly
11. longer
12. more harshly

### unit 97

1. would
2. ever
3. anything
4. anybody
5. anything
6. nowhere
7. anything
8. nothing
9. no one
10. anything
11. anywhere
12. anything

### unit 98

1. worms
2. lunches
3. cabins
4. creek
5. deer
6. hole
7. line
8. cap
9. water
10. rock
11. fish
12. friends

Check puzzles to see that students have circled all the above words.

### unit 99

1. their, to
2. to, there
3. two, four
4. their, by
5. You're, too, to
6. too, to
7. You're, your

8. buy, by
9. There, their
10. their (or two)
11. two (or four)
12. They're (or You're)
13. their
14. You're
15. there, to
16. your
17. their, for (or to), their, to

### **units 100-101**

---

Look at student art to see that they have crossed out the following words and replaced them as shown:

plain = plane  
 son = sun  
 pare = pair  
 sale = sail  
 meet = meat  
 bare = bear  
 whole = hole  
 dear = deer  
 hair = hare  
 pale = pail  
 I = eye  
 tow = toe  
 night = knight  
 be = bee  
 hoarse = horse  
 flour = flower

Original sentences will vary.

### **unit 102**

---

"Tonight we'll raid the garbage cans outside the mess hall. Are you ready?" asked Freddy.

"You bet!" exclaimed Moe.

"There's a gold mine in this can! There's even a book. Have you ever read *Monster Madness*?" asked Moe.

"No! Why are you messing with books? I hear a noise. Grab your stuff and run," said Freddy.

"I got corn cobs, potato peels, apple cores, bread crusts, and some mozzarella cheese. Yummm. What did you get?" questioned Freddy.

Moe answered cheerfully, "It looks like I got everything but the kitchen sink."

### **unit 103**

---

Check student papers for proper punctuation.

### **unit 104**

---

Check student papers for accurate editing.

### **unit 105**

---

Check student papers for accurate editing.

### **unit 106**

---

Check student pages for accurate

**unit 206**

Answers may vary somewhat.

1. the speed of the wind at the bottom
2. fraction that are experts or fraction that are intermediate
3. number of times she fell in the third hour
4. number of passes sold last season
5. price of the boots
6. number of days of the trip
7. number of skiers rescued each day
8. number won by Will or Thomas
9. amount of snow before last night
10. number of collisions on Monday or Tuesday

**unit 207**

1. new \$700 snowboard, today is my 14th birthday; *answer is 27*
2. including 3 Flips; *answer is 5*
3. did 3 Backscratchers, 2 Iguana Back Flips, and 5 Nose Rolls; *answer is 3 minutes 20.54 seconds*
4. I've done 200 Ollies; *answer is 4,800*
5. takes 45 minutes to get to the park from home, season pass cost \$350; *answer is 3 hours*
6. 1,200 snowboarders, 180 boarders under 12, 70 boarders over 16; *answer is \$315*
7. movie tickets cost \$6.50 each; *answer is "no"*
8. 37 bruises, 6 cuts, 1 broken finger; *answer is 260*
9. 6 tacos, 2 hot dogs; *answer is 104*

**unit 208**

1. c;  $11\frac{1}{2}$  miles
2. c; 8 hours
3. b; 52
4. c; 8
5. a; 6
6. a; 16

**unit 209**

Equations may vary in the order in which they are written.

1.  $n = (42 \times 2) + (7 \times 3)$   
( $n = 105$ )
2.  $n = 216 \div 3$   
( $n = 72$ )
3.  $n = 400 - 195$   
( $n = 205$  miles)
4.  $n = 96 - 28$   
( $n = 68$  pairs)
5.  $n = 7 \times 20$   
( $n = 140$  quarts)

6.  $n = 2,224 + 155 + 2,224 - 350$   
( $n = 4,253$ )
7.  $n = \$4,500 - \$1,850 - \$570$   
( $n = \$2,080$ )
8.  $n = .5 \times 4,788.5$  or  $\frac{1}{2} \times 4,788.5$   
( $n = 2,394.25$  ft or  $2,394\frac{1}{4}$  ft)

**unit 210**

- Jose—3,200  
Abby—3,880  
Dylan—4,261  
Jessica—4,109  
Ryan—4,496  
Brad—4,323  
Lauren—4,975  
Andy—3,495  
Alexa—5,000  
Denise—4,370

1. Alexa
2. yes

**unit 211**

1. 50%, 6
2. Carla, Josie
3. 9
4. 38
5. Dana, 4
6. 66
7.  $\frac{38}{66}$  or  $\frac{19}{33}$
8. Josie
9.  $\frac{11}{13}$
10. Dana
11. Josie & Carla
12. Patti & Carla

**unit 212**

Matching pairs are:

- 5,280 feet—1 mile  
20 qt—5 gal  
54 in.— $1\frac{1}{2}$  yd  
108 in.—3 yd  
4 cups—2 pints  
 $3\frac{1}{2}$  lb—56 oz  
3,000 lb— $1\frac{1}{2}$  tons  
2 qt—8 cups  
10 gal—80 pints  
12 feet—4 yards

**unit 213**

Answers may vary somewhat depending on exactly where students measure. Allow answers in these ranges:

1. 24–30 cm
2. 18 cm
3. 36 cm
4. 30–36 cm



## Skills Exercises Answer Key

- 21–24 cm
- 24–27 cm
- 15–18 cm
- 21–24 cm
- 48 cm
- 27 cm
- 60 cm

### unit 214

Recipe for 8

- 6 cups milk
- 12 eggs
- 5 bananas
- $1\frac{1}{2}$  teaspoons vanilla
- $1\frac{1}{3}$  cups protein powder

Recipe for 2

- $1\frac{1}{2}$  cups milk
- 3 eggs
- $1\frac{1}{4}$  bananas
- $\frac{3}{8}$  teaspoon vanilla
- $\frac{1}{3}$  cup protein powder

Recipe for 12

- 9 cups milk
- 18 eggs
- $7\frac{1}{2}$  bananas
- $2\frac{1}{4}$  teaspoons vanilla
- 2 cups protein powder

### unit 215

- Red ..... 7.1
- Blue ..... 6.35
- Pink ..... 0.6
- Black ..... 100.12
- Yellow ..... 0.36
- Purple ..... 0.09
- Tan ..... 9.1
- Orange ..... 14.2
- Brown ..... 2.05
- Tan ..... 0.9
- Silver ..... 0.24
- Green ..... 0.99
- Red ..... 10.12
- Blue ..... 8.08
- Green ..... 9.9
- Pink ..... 8.8
- Purple ..... 2.4
- Red ..... 0.009
- Orange ..... 0.22
- Yellow ..... 3.6
- Blue ..... 0.5
- Green ..... 50.5
- Silver ..... 20.5
- Purple ..... 100.2

### unit 216

- Annie Ace—\$5.19
- Movin' Marika—\$5.55
- Daring Donna—\$5.45
- Suzie Spiker—\$4.94
- Jumpin' Julie—\$9.15
- Colleen Cool—\$4.34
- Towering Tara—\$6.04

- No-Foul Fran—\$8.27
- Sally Smasher—\$4.95
- Nellie Net—\$4.70
- Sara Server—\$8.05
- Power Pam—\$5.45

### unit 217

- D; \$25,000
- S; 351
- D; 5
- M; 156
- A & S (or just S); 35
- M, A, & S or (M & S); 9
- A & M; 20
- A; 8

### unit 218

- $P = 39$  in.
- $V = 27$  in.<sup>3</sup>
- $V = 87.92$  in.<sup>3</sup>
- $V = 180$  in.<sup>3</sup>
- $V = 1,024$  in.<sup>3</sup>
- $V = 75.36$  in.<sup>3</sup>
- $V = 48$  in.<sup>3</sup>
- $A = 54$  in.<sup>2</sup>
- $P = 6$  in.
- $A = 957$  in.<sup>2</sup>
- $A = 4,900$  in.<sup>2</sup>

### unit 219

- baseball—8,100 ft<sup>2</sup>
- tennis—2,808 ft<sup>2</sup>
- boxing—256 ft<sup>2</sup>
- swimming—11,108 ft<sup>2</sup>
- archery—1,125 ft<sup>2</sup>
- wrestling—452.16 ft<sup>2</sup>
- track—151,400 ft<sup>2</sup>
- sailboat—138 ft<sup>2</sup>

### unit 220

- |         |         |
|---------|---------|
| 1. 75%  | 11. 55% |
| 2. 10%  | 12. 15% |
| 3. 20%  | 13. 90% |
| 4. 90%  | 14. 75% |
| 5. 25%  | 15. 10% |
| 6. 80%  | 16. 25% |
| 7. 50%  | 17. 30% |
| 8. 40%  | 18. 40% |
| 9. 5%   | 19. 80% |
| 10. 30% | 20. 50% |

### unit 221

- 8
- 72
- 1
- 54
- 18
- 3
- 960
- 24
- 72
- 9

### unit 222

- 1 hour 5 minutes
- 9:50 A.M.
- 11:10 A.M.
- 1:40 P.M.
- 20 minutes
- 5:05 P.M.
- 30 minutes
- 7:35 P.M.
- 10:55 P.M.
- 8 hours 55 minutes

### unit 223

- \$24.08
- sleeveless T-shirt  
(for \$19.80)
- \$51.94
- \$85.12
- \$52.43
- \$33.07
- no
- \$2.10
- yes
- \$48.16

### unit 224

- 30 gal
- 160 towels
- 80 cups
- 40 sticks
- 3
- \$90
- 75 pairs
- \$2,800
- 660

### unit 225

- from left to right:  
Tony, Toby, Timothy, Terence, Tiny;  
Tiny finished first.
- Drawings on 2–5 may vary.
- Iron Arms
  - Grizzlies
  - Serena
  - Ramon

### unit 226

Paths should follow these numbers:

- 1—8—160—80—trophy 92
- 2—26—106—212—trophy 200
- 3—45—5—55—trophy 11
- 4—84—74—174—trophy 0

### unit 227

- Sunday 10
- Monday 440
- Tuesday 42
- Wednesday 24
- Thursday 75 (or 25)
- Friday 100
- Saturday 56

**unit 228**

Top: The cheese is in Carla's locker.  
Bottom: Max is in R.J.'s locker.

**unit 229**

Problem 1—Jamie is the fourth person from the front of the line.

Problem 2—One is the man with the Tiger's flag, and the other is the girl second from the end.

**unit 230–231**

Answers will vary. Check student equations to make sure they add up to correct score and to make sure they are methods that are actually possible for football scores.

**unit 232**

Answers may vary somewhat.

1. yes, b
2. Ted, b
3. 30, b
4. 11, b
5. 66, a
6. 144 square meters, b

**unit 233**

Answers may vary as to strategies chosen.

1. yes; mental math or estimate
2. 480 feet; write equation, estimate, or mental math
3. 180; write equation
4. 5:40 P.M.; draw a diagram or write equation
5. Lucy; draw a diagram
6. 5, 11, 17; trial and error or write equation

**units 234–235**

Explanations of problem solutions will vary.

1. 11
2. Seth
3. \$86
4. 864 ft<sup>3</sup>
5. 15, 18, 9

**unit 236**

Correct answers are  
2, 3, 4, 8, 9, 10, 13, 15

**units 237–238**

1. ten thousand seven hundred fifty
2. one billion six hundred million
3. two million
4. forty thousand
5. three thousand
6. forty million one hundred thousand
7. one thousand nine hundred thirty-three
8. eighty-five thousand

9. eight thousand sixty-two
10. three hundred fifty thousand
11. 35,000,000,000
12. 95,000
13. 4,099
14. \$30,000,000
15. 10,563
16. \$1,500,000,000
17. 29,228
18. 1,300,000
19. 200,000
20. 3,000
21. \$394,000
22. 10,500

**unit 239**

1. 56
2. 312
3. 522
4. 940
5. 113
6. 111
7. 1,254
8. 189
9. 515
10. 873
11. 125,649
12. 11,038
13. 7,495
14. 2,062
15. 2,892
16. 7,358

**unit 240**

1. 5,493
2. 1,339
3. Hungary
4. 1,377
5. Spain
6. Italy
7. 376
8. 266
9. 955
10. 7,308
11. 23
12. 101

**unit 241**

- Accept any four correct factors.
1. 1, 2, 3, 6, 9, 18
  2. 1, 2, 5, 10
  3. 1, 3, 5, 15
  4. 1, 3, 5, 9, 15, 45
  5. 1, 2, 3, 6
  6. 1, 2, 3, 6, 9, 10, 15, 30, 45, 90
  7. 1, 3, 7, 21
  8. 1, 3, 11, 33
  9. 1, 2, 3, 4, 6, 8, 12, 24
  10. 1, 2, 4, 7, 8, 14, 28, 56
  11. 1, 2, 4, 8, 16, 32
  12. 1, 3, 9, 27

13. 1, 2, 3, 6, 7, 14, 21, 42
14. 1, 2, 4, 5, 8, 10, 20, 40
15. 1, 3, 13, 39

**unit 242**

- |       |        |        |
|-------|--------|--------|
| 1. 2  | 10. 12 | 19. 4  |
| 2. 3  | 11. 3  | 20. 7  |
| 3. 11 | 12. 4  | 21. 4  |
| 4. 14 | 13. 2  | 22. 10 |
| 5. 15 | 14. 2  | 23. 5  |
| 6. 6  | 15. 2  | 24. 10 |
| 7. 4  | 16. 10 | 25. 2  |
| 8. 3  | 17. 5  | 26. 3  |
| 9. 10 | 18. 5  | 27. 3  |

The driver dragged a garden rake to stop the sled.

**unit 243**

Check to see that students have colored picture correctly, according to answers given in color code.

**unit 244**

1. 700
2. 300
3. 950
4. 200
5. 1,460
6. 1,000
7. 1,700
8. 200
9. 4,000
10. 1,300
11. 910
12. 409
13. 1,589
14. 5,791

**unit 245**

Hurdle problem: 100

1. 161
2. 6
3. 2,002
4. 888
5. 1
6. 202
7. 1,000
8. 0

**unit 246**

1. divide; 1,089
2. multiply; \$1,972,886.00
3. multiply; 15,600
4. add; 265.03 km
5. multiply; 2,000
6. divide; \$22.90
7. multiply; \$300,000,000
8. multiply and add; \$3,944.00

**unit 247**

1. commutative property of mult.
2. property of 1

## Skills Exercises Answer Key

3. zero property of mult.
4. commutative property of mult.
5. property of 1
6. commutative property of mult.
7. commutative property of addition
8. zero property of subtraction
9. opposites property of addition
10. zero property of addition
11. commutative property of mult.
12. zero property of mult.

### unit 248

1.  $\frac{2}{6}$  or  $\frac{1}{3}$
2.  $\frac{3}{6}$  or  $\frac{1}{2}$
3.  $\frac{3}{9}$  or  $\frac{1}{3}$
4.  $\frac{1}{9}$
5.  $\frac{6}{9}$  or  $\frac{2}{3}$
6.  $\frac{5}{6}$
7.  $\frac{2}{8}$  or  $\frac{1}{4}$
8.  $\frac{1}{8}$
9.  $\frac{2}{6}$  or  $\frac{1}{3}$
10.  $\frac{4}{12}$  or  $\frac{1}{3}$
11.  $\frac{1}{6}$
12.  $\frac{4}{6}$  or  $\frac{2}{3}$
13.  $\frac{4}{12}$  or  $\frac{1}{3}$
14.  $\frac{11}{12}$
15.  $\frac{2}{6}$  or  $\frac{1}{3}$
16.  $\frac{2}{6}$  or  $\frac{1}{3}$
17.  $\frac{1}{4}$
18.  $\frac{1}{6}$
19.  $\frac{4}{10}$  or  $\frac{2}{5}$

### unit 249

1.  $\frac{2}{4}$
2.  $\frac{5}{7}$
3. both
4.  $\frac{1}{3}$
5.  $\frac{1}{3}$
6.  $\frac{5}{6}$
7.  $\frac{7}{8}$
8. both
9.  $\frac{2}{3}$
10.  $\frac{11}{12}$
11.  $\frac{5}{6}$
12. both
13.  $\frac{1}{4}$ ;  $\frac{2}{5}$ ;  $\frac{1}{2}$
14.  $\frac{3}{18}$ ;  $\frac{2}{3}$ ;  $\frac{5}{6}$

$$15. \frac{2}{5}; \frac{5}{9}; \frac{6}{7}$$

### unit 250

Path follows these equations:

$$\frac{8}{12} = \frac{2}{3}$$

$$\frac{2}{4} = \frac{5}{10}$$

$$\frac{6}{3} = \frac{8}{4}$$

$$\frac{8}{4} = \frac{12}{6}$$

$$\frac{20}{25} = \frac{4}{5}$$

$$\frac{7}{12} = \frac{14}{24}$$

$$\frac{0}{2} = \frac{0}{4}$$

$$\frac{2}{3} = \frac{4}{6}$$

### unit 251

1. C
2. B
3. B
4. A
5. C
6. B
7. A
8. A
9. B
10. C

### unit 252

1.  $28\frac{1}{2}$
2.  $9\frac{3}{6}$  or  $9\frac{1}{2}$
3.  $24\frac{1}{4}$
4.  $23\frac{1}{2}$
5.  $6\frac{2}{5}$
6.  $10\frac{5}{8}$
7.  $29\frac{1}{3}$
8.  $20\frac{3}{4}$
9.  $12\frac{1}{4}$
10.  $27\frac{1}{4}$
11.  $23\frac{2}{3}$
12.  $15\frac{3}{4}$
13.  $27\frac{3}{6}$  or  $27\frac{1}{2}$
14.  $10\frac{9}{12}$  or  $10\frac{3}{4}$
15.  $25\frac{1}{4}$
16.  $4\frac{2}{3}$

### unit 253

- a.  $1\frac{1}{4}$
- b.  $2\frac{1}{7}$
- c.  $1\frac{6}{7}$
- d.  $1\frac{1}{5}$
- e.  $8\frac{8}{10}$  or  $8\frac{4}{5}$

$$f. 3\frac{1}{3}$$

$$g. 1\frac{1}{2}$$

$$h. 1\frac{4}{16}$$
 or  $1\frac{1}{4}$

$$i. 1\frac{6}{10}$$
 or  $1\frac{3}{5}$

$$j. 1\frac{4}{11}$$

$$k. 4\frac{6}{8}$$
 or  $4\frac{3}{4}$

$$l. 4\frac{2}{4}$$
 or  $4\frac{1}{2}$

$$m. 4\frac{5}{10}$$
 or  $4\frac{1}{2}$

$$n. 1\frac{3}{4}$$

$$o. 13\frac{2}{6}$$
 or  $13\frac{1}{3}$

$$p. 5\frac{2}{3}$$

$$q. 8\frac{4}{6}$$
 or  $8\frac{2}{3}$

$$r. 1\frac{2}{9}$$

$$s. 6\frac{3}{5}$$

$$t. 5\frac{1}{20}$$

$$u. 10\frac{3}{6}$$
 or  $10\frac{1}{2}$

$$v. 1\frac{1}{5}$$

$$w. 2\frac{5}{7}$$

$$x. 1\frac{1}{3}$$

### unit 254

See that fractions are circled with correct colors.

1.  $\frac{5}{6}$
2.  $\frac{3}{10}$
3.  $\frac{1}{12}$
4.  $\frac{1}{8}$
5.  $\frac{1}{2}$
6.  $\frac{4}{5}$
7.  $\frac{1}{6}$
8.  $\frac{13}{22}$
9.  $\frac{1}{3}$
10.  $\frac{4}{9}$
11.  $\frac{7}{9}$
12.  $\frac{19}{21}$
13.  $\frac{1}{2}$
14.  $\frac{19}{24}$

### unit 255

1.  $\frac{24}{28}$  or  $\frac{6}{7}$
2.  $\frac{8}{7}$  or  $1\frac{1}{7}$
3.  $\frac{27}{22}$  or  $1\frac{5}{22}$
4.  $\frac{10}{3}$  or  $3\frac{1}{3}$
5.  $\frac{20}{60}$  or  $\frac{1}{3}$

6.  $\frac{10}{36}$  or  $\frac{5}{18}$
7.  $\frac{42}{40}$  or  $1\frac{1}{20}$
8.  $\frac{100}{121}$
9.  $\frac{1}{4}$
10.  $\frac{36}{5}$  or  $7\frac{1}{5}$
11.  $\frac{15}{12}$  or  $1\frac{3}{12}$  or  $1\frac{1}{4}$
12.  $\frac{32}{27}$  or  $1\frac{5}{27}$
13.  $\frac{5}{12}$
14.  $\frac{12}{12}$  or 1
15.  $\frac{4}{25}$

**unit 256**

- |            |             |
|------------|-------------|
| 1. .1      | 19. 4.60    |
| 2. .9      | 20. 3.67    |
| 3. 10.1    | 21. .469    |
| 4. .3      | 22. 4.679   |
| 5. 1.6     | 23. 7.090   |
| 6. 4.9     | 24. .056    |
| 7. 2.2     | 25. 41.523  |
| 8. .1      | 26. .199    |
| 9. .1      | 27. 5.011   |
| 10. 4.8    | 28. .022    |
| 11. .18    | 29. .7478   |
| 12. 2.81   | 30. .1999   |
| 13. .78    | 31. .7400   |
| 14. .06    | 32. 15.0289 |
| 15. 6.00   | 33. 1.1515  |
| 16. 100.48 | 34. 4.3337  |
| 17. .94    | 35. .5902   |
| 18. 1.37   |             |

**unit 257**

|                 |        |      |
|-----------------|--------|------|
| Karin           | 39.479 | 4th  |
| Sofia           | 39.272 | 5th  |
| Elena           | 37.901 | 11th |
| Kim             | 38.464 | 9th  |
| Kerri           | 38.886 | 6th  |
| Tatiana         | 39.928 | 1st  |
| Nina            | 38.562 | 7th  |
| Larissa         | 38.545 | 8th  |
| Svetlana        | 39.738 | 2nd  |
| Olga            | 37.063 | 12th |
| Kathy           | 39.482 | 3rd  |
| Tamara          | 38.289 | 10th |
| gold—Tatiana    |        |      |
| silver—Svetlana |        |      |
| bronze—Kathy    |        |      |

**unit 258**

1. \$3.00
2. \$2.60
3. \$945.00
4. \$210.00
5. \$120.00
6. \$26.80
7. \$360.00
8. approx \$133
9. \$2,085.00

10. \$26.83
11. \$143.00
12. \$725.00

**unit 259**

1. 0.78
2. 0.80
3. 0.74
4. 0.72
5. 0.77
6. 0.81
7. 0.75
8. 0.73
9. 0.71
10. 0.75

**unit 260**

|           |    |
|-----------|----|
| Earvin    | 90 |
| Tony      | 90 |
| Christian | 90 |
| Clyde     | 80 |
| Alan      | 95 |
| David     | 80 |
| Rimas     | 83 |
| Charles   | 94 |
| Aramis    | 80 |
| Karls     | 75 |
| Gintaros  | 67 |
| Patrick   | 78 |
| Larry     | 83 |
| John      | 86 |
| Sergejus  | 83 |
| Stojko    | 80 |
| Chris     | 87 |
| Scottie   | 93 |

1. Gintaros
2. Sergejus
3. Alan, Charles, and Scottie
4. Alan

**unit 261**

1. 25°
2. 11°
3. 24°
4. 21°
5. -12°
6. 0°
7. -11
8. +5
9. -2
10. -5
11. -16
12. +24
13. 0
14. +17

**unit 262**

1. Plane ABCD
2. Ray AB
3. Line Segment AB
4. Point B
5. Line AB

6. Angle ABC
7. Angle CBD
8. Angle ACB
9. Line Segment BC
10. Angle DCE

**unit 263**

- A. octagon
- B. hexagon
- C. pentagon
- D. trapezoid
- E. square
- F. rectangle (or square)
- G. parallelogram (or square or rectangle)
- H. quadrilateral
- I. obtuse triangle
- J. equilateral triangle
- K. right triangle
- L. scalene triangle
- M. triangle
- N. polygon
- O. isosceles triangle
- P. rhombus (or square)

**unit 264**

1. P = 14 in
2. P = 160 cm  
A = 1500 cm<sup>2</sup>
3. P = 48 in  
A = 140 in<sup>2</sup>
4. V = 180 in<sup>3</sup>
5. C = 25.12 in
6. V = 254.34 in<sup>3</sup>
7. V = 27 in<sup>3</sup>
8. V = 3014.4 cm<sup>3</sup>

**unit 265**

CHART:

- |            |                     |
|------------|---------------------|
| Monday:    | 4 hours, 15 minutes |
| Tuesday:   | 4 hours, 25 minutes |
| Wednesday: | 5 hours, 55 minutes |
| Thursday:  | 3 hours             |
| Friday:    | 5 hours, 20 minutes |
| Saturday:  | 3 hours, 40 minutes |
| Sunday:    | 1 hour, 40 minutes  |
1. 2 hours, 25 minutes
  2. 3 hours, 55 minutes
  3. 9 hours, 45 minutes
  4. 8:35 a.m.
  5. 2:05 p.m.

**unit 266**

1. Rae Rectangle
2. Tru Trapezoid
3. Helen Hexagon
4. Tish Triangle
5. Dee Decagon
6. Suki Square
7. Olive Octagon
8. Pat Pentagon
9. Rosa Rhombus
10. Pam Parallelogram

Skills Exercises Answer Key

**unit 267**

Top

1. rectangle
2. trapezoid
3. square
4. parallelogram
5. square or rhombus
6. rhombus

Bottom

1. T
2. T
3. T
4. F
5. F
6. T
7. T
8. T
9. F
10. F

**unit 268**

The symmetrical figures are: A, B, D, F, G, and H. These should be colored. Also, check to see that student has drawn a correct line of symmetry in each of these figures.

At the bottom of the Page, check to see that student has completed each figure to look symmetrical.

**unit 269**

The pairs of items should be labeled:

- ping pong paddles: T
- Pennants: S and F
- gloves: F
- black shoes: F
- football helmets: F
- skis: F
- ping pong balls: S
- footballs: S
- boxing gloves: S
- tennis racquets: T or F or both
- ballet slippers: T
- oars: F

Figures at bottom: check to see that student has followed instructions accurately in drawing new figures.

**unit 270**

- |       |       |
|-------|-------|
| 1. =  | 11. > |
| 2. =  | 12. > |
| 3. >  | 13. > |
| 4. =  | 14. > |
| 5. =  | 15. < |
| 6. <  | 16. < |
| 7. =  | 17. > |
| 8. >  | 18. < |
| 9. =  | 19. = |
| 10. = | 20. = |

**unit 271**

Paths students draw will vary in length. Check student's path to see that it is measured correctly, and has been correctly converted into meters, according to the scale.

**unit 272**

1. 62.8 in
2. 9.42 in
3. 4.71 in
4. 28.26 in
5. 4.71 in
6. 7.85 in
7. 6.28 in
8. 9.42 ft
9. 25.12in
10. 12.56 in
11. 18.84 cm
12. 31.4 in
13. 37.68 ft

**unit 273**

1. 400 in<sup>2</sup>
2. 12 ft<sup>2</sup>
3. 14 m<sup>2</sup>
4. 3600 in<sup>2</sup>
5. 50 ft<sup>2</sup>
6. 100,000 cm<sup>2</sup>
7. 30 m<sup>2</sup>
8. 24 yds<sup>2</sup>

**unit 274**

1. P =58 in  
A =125 in<sup>2</sup>
2. P =10 ft  
A = 4 ft<sup>2</sup>
3. P =136 in  
A =987 in<sup>2</sup>
4. P =96 in  
A =576 in<sup>2</sup>
5. P =6.5 ft  
A =1.5 ft<sup>2</sup>
6. P = 120 in  
A = 900 in<sup>2</sup>
7. P = 60 in  
A = 221 in<sup>2</sup>
8. 3
9. 3

**unit 275**

2. 1500 cm<sup>3</sup>
2. 2250 cm<sup>3</sup>
3. 2500 cm<sup>3</sup>
4. 4000 cm<sup>3</sup>
5. 1500 cm<sup>3</sup>
6. 3750 cm<sup>3</sup>
7. 1344 cm<sup>3</sup>
- A. Maria and Val
- B. B.Sal

**units 276–277**

1. D
2. E
3. H
4. C
5. B
6. A
7. F
8. G

The hockey uniforms need the largest box.

**unit 278**

- |      |       |
|------|-------|
| 1. F | 8. F  |
| 2. T | 9. T  |
| 3. T | 10. F |
| 4. F | 11. T |
| 5. F | 12. F |
| 6. F | 13. T |
| 7. F | 14. T |

**unit 279**

Check to see that students have drawn bars on graphs to these heights:

- 0–1000 . . . . 1
- 1000–2000 . . . . 6
- 2000–3000 . . . 17
- 3000–4000 . . . 12
- 4000–5000 . . . 11
- 5000–6000 . . . . 3

**unit 280**

- A. 27–66
- B. 42
- C. 42
- 1. a. 1–9  
b. 2  
c. 5
- 2. a. 72–92%  
b. 72%  
c. 84%
- 3. a. 6–23  
b. 9  
c. 10
- 4. a. 4%–80%  
b. 16%  
c. 12%
- 5. a. 119–221 mi  
b. 121 mi  
c. 121 mi

**unit 281**

1. 12
2. 9
3. 12
4. 9
5. Castle Quartet
6. Sand Wizards
7. Builders Four
8. Sculptors
9. Sand Wizards, Sculptors
10. Saturday

**unit 282**

1. 32
2. 13
3. 21
4. 8 (or leap frogging)
5. 2
6. 22
7. egg balancing (or 9)
8. leapfrogging (or 8)

**unit 283**

1. (2, 8), (4, 9), and (-2, 2)
2. (7, 8) and (-4, 4)
3. (4, 3) and (-3, 8)
4. (6, 5) and (-6, 9)
5. (6, 3) and (-5, 6)
6. (7, 1), (-6, 2), (-4, 0), and (-2, 6)

**unit 284**

- A.
1.  $\frac{3}{7}$
  2.  $\frac{1}{7}$
  3.  $\frac{2}{7}$
  4.  $\frac{1}{7}$
- B.
1.  $\frac{6}{14}$  or  $\frac{3}{7}$
  2.  $\frac{3}{14}$
  3.  $\frac{3}{14}$
  4.  $\frac{8}{14}$  or  $\frac{4}{7}$
  5.  $\frac{11}{14}$
  6.  $\frac{9}{14}$
  7.  $\frac{5}{14}$
- C.
1.  $\frac{12}{16}$  or  $\frac{3}{4}$
  2.  $\frac{5}{16}$
  3.  $\frac{7}{16}$
  4.  $\frac{4}{16}$  or  $\frac{1}{4}$
  5.  $\frac{9}{16}$
  6. 0
  7.  $\frac{11}{16}$

**unit 285**

1.  $\frac{10}{30}$  or  $\frac{1}{3}$
2.  $\frac{5}{30}$  or  $\frac{1}{6}$
3.  $\frac{5}{30}$  or  $\frac{1}{6}$
4.  $\frac{10}{30}$  or  $\frac{1}{3}$
5.  $\frac{20}{30}$  or  $\frac{2}{3}$
6.  $\frac{20}{30}$  or  $\frac{2}{3}$
7.  $\frac{25}{30}$  or  $\frac{5}{6}$
8.  $\frac{10}{30}$  or  $\frac{1}{3}$
9.  $\frac{20}{30}$  or  $\frac{2}{3}$
10.  $\frac{25}{30}$  or  $\frac{5}{6}$
11.  $\frac{6}{20}$  or  $\frac{3}{10}$
12.  $\frac{4}{20}$  or  $\frac{1}{5}$
13.  $\frac{8}{20}$  or  $\frac{4}{10}$  or  $\frac{2}{5}$
14.  $\frac{2}{20}$  or  $\frac{1}{10}$
15.  $\frac{10}{20}$  or  $\frac{1}{2}$
16.  $\frac{12}{20}$  or  $\frac{6}{10}$  or  $\frac{3}{5}$

**unit 286**

1. 6
2.  $\frac{2}{8}$  or  $\frac{1}{4}$
3.  $\frac{1}{8}$
4.  $\frac{1}{8}$
5.  $\frac{1}{8}$
6.  $\frac{2}{8}$  or  $\frac{1}{4}$

7.  $\frac{7}{8}$
8.  $\frac{1}{8}$
9.  $\frac{2}{8}$  or  $\frac{1}{4}$
10. 0
11.  $\frac{4}{8}$  or  $\frac{1}{2}$
12.  $\frac{5}{8}$
13. 0
14.  $\frac{3}{8}$

**unit 287**

1. a.  $\frac{3}{5}$   
b.  $\frac{5}{3}$
2. a.  $\frac{8}{12}$   
b.  $\frac{12}{8}$
3. a.  $\frac{6}{1}$   
b.  $\frac{1}{6}$
4. a.  $\frac{1}{10}$   
b.  $\frac{10}{1}$
5. a.  $\frac{5}{5}$   
b.  $\frac{5}{5}$

**unit 288**

Possible outcomes, not necessarily listed in this order:

- |       |       |       |
|-------|-------|-------|
| 1, 1; | 2, 1; | 3, 1; |
| 1, 2; | 2, 2; | 3, 2; |
| 1, 3; | 2, 3; | 3, 3; |
| 1, 4; | 2, 4; | 3, 4; |
| 1, 5; | 2, 5; | 3, 5; |
| 1, 6; | 2, 6; | 3, 6; |
|       |       |       |
| 4, 1; | 5, 1; | 6, 1; |
| 4, 2; | 5, 2; | 6, 2; |
| 4, 3; | 5, 3; | 6, 3; |
| 4, 4; | 5, 4; | 6, 4; |
| 4, 5; | 5, 5; | 6, 5; |
| 4, 6; | 5, 6; | 6, 6; |

**unit 289**

1.  $\frac{1}{36}$
2.  $\frac{1}{36}$
3.  $\frac{1}{36}$
4. 0
5.  $\frac{6}{36}$  or  $\frac{1}{6}$
6.  $\frac{2}{36}$  or  $\frac{1}{18}$
7.  $\frac{9}{36}$  or  $\frac{1}{4}$
8.  $\frac{18}{36}$  or  $\frac{1}{2}$
9.  $\frac{1}{36}$
10.  $\frac{3}{36}$  or  $\frac{1}{12}$
11.  $\frac{9}{36}$  or  $\frac{1}{4}$
12.  $\frac{9}{36}$  or  $\frac{1}{4}$
13.  $\frac{25}{36}$
14.  $\frac{9}{36}$  or  $\frac{1}{4}$
15.  $\frac{25}{36}$
16.  $\frac{1}{36}$
17.  $\frac{4}{36}$  or  $\frac{1}{9}$
18.  $\frac{5}{36}$
19.  $\frac{3}{36}$  or  $\frac{1}{12}$
20.  $\frac{2}{36}$  or  $\frac{1}{18}$

**unit 290**

Table A: Table should show these combinations, not necessarily in this order:

- R, R;
- R, B;
- R, G;
- R, W;
- B, B;
- B, G;
- B, W;
- G, G;
- G, W;
- W, W

Table B: Table should show these combinations, not necessarily in this order:

- R, R;
- R, B;
- R, P;
- R, O;
- R, W;
- B, B;
- B, P;
- B, O;
- B, W;
- P, P;
- P, O;
- P, W;
- O, O;
- O, W;
- W, W

**unit 291**

1.  $\frac{2}{20}$  or  $\frac{1}{10}$
2.  $\frac{10}{20}$  or  $\frac{1}{2}$
3.  $\frac{4}{20}$  or  $\frac{1}{5}$
4.  $\frac{4}{20}$  or  $\frac{1}{5}$
5. a. 120  
b. 600  
c. 240  
d. 240
6. a. 200  
b. 250  
c. 50

**unit 292**

1. 10; check table to see that it contains all these possible outcomes, not necessarily in this order:

- \$10, \$10;
- \$10, \$20;
- \$10, \$50;
- \$10, \$100;
- \$20, \$20;
- \$20, \$50;
- \$20, \$100;
- \$50, \$50;
- \$50, \$100;
- \$100, \$100

2. yes
3. no
4. no
5. yes
6.  $\frac{1}{10}$

# SKILLS TEST ANSWER KEY

1. food
2. A, C, D
3. Answers will vary.
4. D, E
5. B, E
6. D, E
7. paddle toward shore
8. the face, just ahead of the crest
9. as the wave picks up the board
10. nothing
11. she'll "wipe out"
12. c
13. 19 counting title
14. keep calm
15. "out in the cold"
16. getting mad, or going crazy
17. hit, or smashed
18. "over the hill"
19. c
20. lip color, eyeliner
21. any two: cancer, infections, diseases, eye damage
22. angry
23. Possible answer: Slices or cuts are made in the skin, and color is put into the cuts under the skin.
24. unclean
25. His locker is between Michelle's and Andrea's.
26. #117 and #119
27. c
28. #116, because the article said the lowest number locker was Tara's
29. search for the ram; interrogate students; open lockers
30. leaking out of; coming out of
31. 4 (EXTRA: The ram is in locker # 118. Matt is the culprit.)
32. 3
33. 2
34. 2
35. Two of these: chicken, calzone, televised sports, NY style pizza
36. You bake the pizza at home.
37. Angelino's
38. Pizza Den and Papa G's
39. b
40. confusion, wild time, a mess
41. angry, disgusted, or cynical
42. first person
43. Jennifer
44. 27 (26 4th graders plus Mrs. Vincent)
45. C
46. E
47. A
48. B
49. H
50. G

# ANSWERS

## unit 18

---

- |      |       |
|------|-------|
| A. 9 | F. 5  |
| B. 1 | G. 2  |
| C. 4 | H. 10 |
| D. 7 | I. 3  |
| E. 6 | J. 8  |

## unit 19

---

1. the headache's; first person
2. head is the best place for an ache to reside
3. always a vacancy  
ears and teeth have less room  
ears have wax  
mouths have bad breath  
get to meet interesting people
4. aspirin
5. Answers will vary.
6. Answers will vary.

## unit 20

---

Answers may vary slightly.

poem lines . . .

- 1-2. C
- 3-4. A
5. B
- 6-7. C
8. F
- 9-12. C
- 13-16. D
- 14-21. E
- 22-23. F
- 24-32. Answers will vary.

## unit 21

---

- 1-15. Answers will vary.
16. 3 and 7

## unit 22

---

- |                              |                                     |
|------------------------------|-------------------------------------|
| 1. Joseph                    | 10. Dap                             |
| 2. 2                         | 11. no                              |
| 3. older                     | 12. no                              |
| 4. 4                         | 13. 2                               |
| 5. She is a doctor.          | 14. Dap lives next door<br>to Tess. |
| 6. Mike                      |                                     |
| 7. 5                         |                                     |
| 8. Father is an<br>engineer. |                                     |
| 9. Tess                      |                                     |

## unit 23

---

Answers will vary.

## unit 24-25

---

- 1069 B.C.— King Tut lives  
A.D. 1200 — St. Francis of Assisi tames wolf  
1564 — Shakespeare is born  
1775 — Paul Revere rides  
1800s — Johnny Appleseed plants orchards  
1835 — Mark Twain is born  
1860s — George Washington Carver invents ingenious  
stuff  
1945 — Disney wins Oscars

## unit 26

---

1. Albert borrows his brother's baseball.
2. He goes to picnic and plays games and eats food.
3. He loans the ball to his friend Ralph.
4. He rides the bus home.
5. He gets off the bus whistling.
6. He sees his brother and friends waiting; feels sick.
7. He realized his brother and friends are waiting for the ball.
- 8-10. Answers will vary.

## unit 27

---

- |        |         |
|--------|---------|
| 1. E-C | 6. E-C  |
| 2. C-E | 7. C-E  |
| 3. C-E | 8. E-C  |
| 4. E-C | 9. E-C  |
| 5. E-C | 10. E-C |

## unit 28

---

1. 4
2. Titles will vary.
3. a. the most beautiful state of all  
b. favorite playground of mainland Americans  
c. fascinating place to live  
d. delightful place to vacation

Explanations will vary.

## unit 29

---

- |      |       |       |
|------|-------|-------|
| 1. O | 8. F  | 15. O |
| 2. F | 9. F  | 16. F |
| 3. O | 10. O | 17. O |
| 4. F | 11. O | 18. O |
| 5. F | 12. O | 19. O |
| 6. O | 13. O | 20. F |
| 7. O | 14. O | 21. O |

## unit 30

---

1. stubbornness or stubborn pride
2. stubborn pride can lead to trouble or foolish actions
3. Answers will vary.



**unit 31**

Answers on both sections will vary.

**unit 32**

1. One who is too greedy may lose everything.
2. “The Fox and the Grapes”
3. “The Boy Who Cried ‘Wolf!’”
4. “The Ants and the Grasshopper”
5. “The Lion and the Mouse”

**unit 33**

- A. He fell in a cistern.
- B. A logging accident
- C. His wife and children left him.
- D. She was homeless, insane, kind-hearted, and always seemed cheerful.
- E. Blacksmith
- F. She rejected life in this world.
- G. Many die when they are only halfway through life—in their youth or prime.

**unit 34**

Answers will vary.

**unit 35**

Answers will vary.

**unit 36**

1. Answers will vary somewhat.
  - a. anxious
  - b. friendly, honest, realistic
2. # 2
3. # 1
4. # 2
5. # 1
6. child’s point of view; (third person limited point of view)
7. niece’s point of view (first person point of view)
8. a

**unit 37**

1. Answers will vary.
2. cynical
3. Answers will vary.
4. Answers will vary.
5. Answers will vary somewhat.
6. b

**unit 38**

1. accidentals—incidentals
2. Arabic—aerobic
3. extinguished—distinguished
4. unparalyzed—unparalleled
5. predicate—precedent
6. dreaded—breaded
7. tudors—tutors
8. emasculation—emancipation
9. historically—hysterically

10. presbyterians—pedestrians
11. mockeries—monarchies
12. irritate—irrigate

**unit 39**

1. Killed is serious—four were killed, not one.
2. “To be prepared” is three words, not one.
3. A bachelor IS a single man.
4. Sequence means to put in a particular order.
5. Perfect is an absolute—it can’t be more perfect than perfect.
6. Your ancestors precede you in death—they’re already dead.
7. Permanent is forever.
8. If he’s worth it, then he can’t be paid too much.
9. If you have access, you can enter.
10. Infinite is without end—it can’t be almost without end.
11. If it is spontaneous, it can’t be planned.
12. Déjà vu means to happen again, so the sentence repeats itself.

**unit 40**

1. 15 hours plus several hours on weekends
2. Answers will vary somewhat:
  - Kids have a longer workday than adults.
  - The amount of homework is stressful.
  - The long hours are not healthy.
  - Kids should do most of the learning in class.
  - Kids have little time for social and family life.
3. 15 hours and 25 minutes
4. social time, family time, relaxation, health, fun, sleep
5. in addition

**unit 41**

Answers may vary somewhat

1. 10
2. 5
3. prune juice, toothpaste, strawberries, cucumbers, lettuce
4. cow manure, chocolate chips, and paper bags
5. to show discouragement or hopelessness

**units 42-43**

1. attractive bonuses; good monthly rates
2. KEEPFIT
3. teenfit@atfc.com
4. \$9
5. 4 passes to water park; 10 guest passes
6. \$48
7. dance club membership; water park passes; guest passes
8. \$180

9-10. Answers will vary.

11. Join by March 1

**unit 44**

- |                    |                      |
|--------------------|----------------------|
| 1. Marty           | 6. Chad              |
| 2. Will            | 7. 116               |
| 3. Ben and Price   | 8. 10 dozen          |
| 4. Marty           | 9. Will, Peter, Chad |
| 5. Peter and Price | 10. Marty, Andrew    |

**unit 45**

1. Central United States
2. S.E. United States
3. warm
4. N.W. United States
5. rain
6. They will likely drop.
7. Western mountains and Central East
8. S.E. United States

**unit 46**

Titles will vary.

**unit 47**

1. a surprise element
2. I. rhyme, metaphor, simile  
II. sensory imagery
3. I. thirsty person (first person)  
II. person in love (second person)
- 4-6. Answers will vary.

**unit 48**

1-6. Answers will vary.

**unit 49**

Descriptions will vary.  
The following items have common stereotypes: 2, 3, 5, 8, 9

**unit 50**

1. bias against the present justice system
- 2-3. Answers will vary.
4. Crime cannot be eradicated by laws and systems alone.  
Every person of good will must get involved.
- 5-7. Answers will vary.

**unit 51**

1. wrath—great anger  
foe—enemy  
deceitful wiles—underhanded acts  
veiled—hidden
2. anger disappeared
3. anger grew
4. fruit—evil results
5. apple
6. Garden of Eden
7. Answers will vary.
8. He dies, poisoned by the fruit.
9. b

**unit 52**

Answers will vary.

**unit 53**

Answers may vary somewhat.

Poetry lines . . .

|          |      |
|----------|------|
| Line 1—1 | 11—2 |
| 2—1      | 12—2 |
| 3—2      | 13—2 |
| 4—1      | 14—4 |
| 5—4      | 15—1 |
| 6—4      | 16—1 |
| 7—4      | 17—1 |
| 8—4      | 18—4 |
| 9—2      | 19—1 |
| 10—2     |      |

**unit 54**

1. How to escape to the great outdoors
2. To interest the reader in outdoor activity
3. playful
4. There are several examples:  
Seasons' doors, Nature's lovely store, lady who paints,  
her shelves are filled
5. none (Line 15 uses the word "like," but not for a simile.)
6. there are several: craggy cracks, scraggly huskery stalks, starlight skies, slide back on shadows
7. craggy cracks  
some soap or snips of string  
best, most beautiful  
filled with fun
8. aa, bb, cc, dd, aa

**unit 55**

- A. 2, 7, 8, 9, 10, 11
- B. 1, 2, 3, 5, 8, 9, 10, 11, 12, 15, 16
- C. 4, 12, 13, 14
- D. 2, 8, 9, 13, 16
- E. Answers will vary.
- F. Money is green, too.

**unit 56**

There are 23 instances of figurative language.  
Paragraph answers will vary.

**unit 57**

1. personification
2. Matt
3. Gardens and fields are patches of a quilt.
4. Check students' individual pages.  
Paul is the football player.

**unit 58**

Answers will vary.

# WRITING

## SKILLS TEST ANSWER KEY

### PART I

Students may choose answers for questions 1–20 that vary slightly from the answers given below, as word choices and sentence interpretation are subjective acts. Give student credit for any reasonable answer.

1. c
2. a
3. b
4. a
5. d
6. b
7. c
8. d
9. b
10. b, c
11. a, c
12. a, b
13. a, b
14. a
15. a
16. (answers will vary): old, kind of like, together
17. a
18. a, b, c
19. b
20. b

### PART II

Answers will vary considerably on these eight writing tasks. There are no right and wrong answers. Give students up to 10 points for each task, judged on:

- a) how thoroughly they completed the task
- b) if they followed the directions
- c) if they succeeded in accomplishing what was asked of them

# ANSWERS

For most of the activities in these pages, the answers will vary. Check to see that students have completed the tasks with reasonable responses that fit the requirements of the tasks, that they have taken the directions seriously, and that they have given effort to completing the exercise as explained. Answers are listed below for the pages that have specific answers.

## **unit 75**

---

Answers may vary somewhat.

1. OK
2. The bad joke embarrassed us.
3. Someone stole my purse.
4. OK
5. They put the thief in jail. OR, The thief went to jail.
6. OK
7. Have you recorded the grades?
8. No one has ever told the story.
9. Did the Easter Bunny bring those eggs?
10. Did an elephant sit on this hat?

## **unit 78**

---

Answers may vary somewhat.

1. The reason she refused his invitation to the dance was that she had nothing to wear.
2. We couldn't hear the words to the song because the track was too loud.
3. The room was square.
4. If students cooperate, they can outwit the teacher.
5. John's attitude was bad.
6. In my opinion, the assignment is unfair. Or, I think the assignment is unfair.
7. He drew three circles on his paper.
8. I think the bald principal is kind of cute.
9. Chad is a great player. Or, Chad really plays well.
10. I would like a new friend.
11. My parents monitor everything I do.
12. Waitress, what is today's soup?

## **unit 80**

---

Answers will vary somewhat. These are some possibilities.

1. While I was cleaning the attic this morning, a mouse scared me.
2. As we were paddling quietly along in the canoe, the moon shone brightly.
3. In the morning paper, I read about the bank robbers who were caught.
4. The students were worried that the teacher, having collapsed in a convulsion of laughter, would never regain consciousness.
5. So that Joey could earn money for the prom, Mr. Blake gave him a job mowing his lawn.
6. The fans in the stands booed the football players.
7. While Fluffy was eating her cat food, Mom noticed that she had a burr in her paw.
8. When I was a child, my mother taught me many lessons.
9. Behind the junkyard, there was a tiny cottage that was very beautiful.
10. I could not find my math book on the top shelf of my locker.
11. He sold ice cream sodas with tiny umbrellas in them to the children.
12. The eighth graders were punished by the principal after the fire alarm prank.

## **unit 83**

---

"Gotcha!": The victim is a mosquito.

## **unit 84**

---

The housekeeper could not open the mailbox because the key was in the box since he sent it through the mail.

## **unit 94**

---

Answers will vary slightly.

Some possible answers:

1. formal, defensive, accusatory, imploring
2. leisurely, languid, relaxed, free
3. dark, foreboding, ominous

# SPELLING

## SKILLS TEST ANSWER KEY

1. ie (chief)
2. ei (neighbor)
3. ei (foreign)
4. ei (neither)
5. ei (weigh)
6. ie (achieve)
7. ei (receive)
8. ie (quotient)
9. ei (weird)
10. ei (seize)
11. ize (apologize)
12. ise (promise)
13. age (hostage)
14. ous (marvelous)
15. ise (televise)
16. tion (tradition)
17. ous (dangerous)
18. ious (contagious)
19. ence (evidence)
20. ible (sensible)
21. ant (vacant)
22. le (candle)
23. al (fatal)
24. ant (significant)
25. le (wrestle)
26. ible (reversible)
27. ate (decorate)
28. le (icicle)
29. no
30. g
31. d
32. w
33. no
34. no
35. w
36. l
37. e
38. no
39. dis (disapproved)
40. extra (extraordinary)
41. ir (irregular)
42. inter (interstate)
43. anti (antigerm)
44. mob (mobility)
45. tang (tangible)
46. ver (verify)
47. dorm (dormant)
48. lum (luminous)
49. principal
50. stationary
51. incidents
52. capitol
53. except
54. affect
55. advice
56. whether
57. angles
58. thorough
59. Lincoln
60. dollar
61. toward
62. Connecticut
63. opossum
64. pharmacist
65. maneuver
66. chocolate
67. Republican
68. Pilgrims
69. peculiar
70. beautiful
71. business
72. receive
73. balloon
74. separate
75. enough
76. occurred
77. advertisement
78. benefit
79. excitement
80. suspicious
81. apologize
82. exception
83. amusement
84. exaggerate
85. surprise
86. inadequate; banquet
87. Columbus; really; discover; America
88. librarians; San Francisco; Los Angeles
89. doctor; excuse; school; any; symptoms; illness
90. antonym; opposite; synonym
91. restaurant
92. calendar
93. embarrass
94. hippopotamus
95. license
96. necessary
97. laboratory
98. noticeable
99. dinosaur
100. parallel

# ANSWERS

## **unit 124**

---

List 1

Incorrect

2, 7, 10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 25

List 2

Incorrect

1, 3, 4, 5, 6, 8, 9, 16, 18, 20, 21, 23

## **unit 125**

---

1. dilemma
2. arithmetic
3. different
4. cafeteria
5. calendar
6. college
7. anonymous
8. excess
9. criticize
10. necessary
11. vegetables
12. recognize
13. laughter
14. August
15. through

## **unit 126**

---

1. okay
2. okay
3. benefit
4. okay
5. okay
6. animal
7. okay
8. omitted
9. embarrass
10. okay
11. quizzical
12. okay
13. okay
14. bazaar
15. cereal
16. okay
17. ammonia
18. traveling
19. okay
20. parallel
21. okay
22. okay
23. ballot
24. barracuda
25. balcony
26. okay
27. okay
28. okay
29. okay
30. memory
31. okay

32. opossum
33. hippopotamus
34. staccato
35. Tennessee
36. okay
37. centennial
38. okay
39. professor
40. celebrate

## **unit 127**

---

1. freight
2. sleigh
3. neighborhood
4. mischief
5. achieve
6. reign
7. conscience
8. conceited
9. quotient
10. piece
11. society
12. efficient
13. grief
14. science
15. eight
16. weight
17. deficient
18. convenient
19. hygiene
20. shriek

## **unit 128**

---

1. B
2. C
3. B
4. C
5. B
6. C
7. B
8. A
9. C
10. B
11. C
12. C
13. C
14. C
15. C
16. B
17. A
18. C
19. B
20. B
21. C
22. A
23. B
24. C
25. C
26. We don't stick with these rules.

## **unit 129**

---

1. motto
2. forgot
3. cocoon
4. odor
5. common
6. monsoon
7. photograph
8. toxicology
9. foolproof
10. follow
11. logo
12. tattoo
13. overlook
14. loon
15. locomotive
16. kazoo
17. orator
18. monocle
19. porous
20. voodoo
21. scorpion
22. opponent
23. sophomore
24. monotonous

## **unit 130**

---

Below are some suggested answers. Consider any answer that makes sense and contains a silent letter.

1. Ghetto
2. Dough
3. Gnaws
4. Crumbs
5. Gnu
6. Wrapped
7. Judge; Bridge
8. Answers
9. Resigns
10. Knight; Sword
11. Raspberries
12. Ptomaine
13. Knife
14. Dumb
15. Pledge
16. Stalked
17. Badge
18. Lambs
19. Knock
20. Reigns

## **unit 131**

---

1. ph
2. ph
3. ph
4. gh
5. ph
6. gh
7. ph

8. gh
9. ph
10. gh
11. ph
12. ph
13. gh
14. ph
15. ph
16. ph
17. gh
18. ph; ph

## **unit 132**

---

1. prescription
2. exclude
3. rewrite
4. conform
5. depart
6. subdivide
7. translate
8. microchip
9. prolong
10. invisible
11. advance
12. bibliography
13. extraordinary
14. ultrasonic
15. disapprove
16. tricycle
17. antiwar
18. untied

## **unit 133**

---

1. verify
2. altitude
3. empathy
4. tangible
5. pacifist
6. durable
7. librarian
8. mobility
9. population
10. suspend
11. fracture
12. transfer
13. dormant
14. autobiography
15. action
16. journal
17. luminous
18. astrology
19. ridiculous
20. biography

## **unit 134**

---

1. distant
2. important
3. vacant
4. restaurant
5. elephant

- 6. pleasant
- 7. significant
- 8. defiant
- 9. elegant
- 10. applicant
- 11. observant
- 12. vigilant
- 13. occupant
- 14. ignorant
- 15. assistant
- 16. defendant
- 17. hydrant
- 18. contestant
- 19. constant
- 20. inhabitants

**unit 135**

- 1. ate
- 2. ate
- 3. ate
- 4. eat
- 5. ate
- 6. ate
- 7. eat
- 8. ate
- 9. eat
- 10. eat
- 11. ate
- 12. ate
- 13. eat
- 14. ate
- 15. ate
- 16. ate
- 17. ate
- 18. eat
- 19. ate
- 20. ate
- 21. ate
- 22. ate
- 23. eat
- 24. ate
- 25. ate
- 26. eat

**unit 136**

- 1. frugal
- 2. hysterical
- 3. candle
- 4. principal or principle
- 5. ok
- 6. ok
- 7. gargle
- 8. ok
- 9. angel or angle
- 10. ok
- 11. ok
- 12. ok
- 13. unravel
- 14. legal
- 15. wrestle
- 16. spiral
- 17. clavicle

- 18. ok
- 19. vessel
- 20. ok
- 21. channel
- 22. ok
- 23. visible
- 24. radical
- 25. ok
- 26. ok
- 27. ok
- 28. obstacle
- 29. ok
- 30. travel
- 31. ok
- 32. carnival

**unit 137**

- 1. ize
- 2. ile
- 3. ile
- 4. ive
- 5. ish
- 6. ise
- 7. ism or ize
- 8. ish
- 9. ish
- 10. ive
- 11. ive
- 12. ist or ism
- 13. ile
- 14. ish
- 15. ite or ish
- 16. ish
- 17. ive
- 18. ism or ize
- 19. ise
- 20. ive
- 21. ism
- 22. ist
- 23. ish
- 24. ize
- 25. ist, ism, or ize
- 26. ize
- 27. ite
- 28. ist
- 29. ist

**unit 138**

- 1. tion
- 2. tion
- 3. cian
- 4. sion
- 5. sion
- 6. sion
- 7. tion
- 8. tion
- 9. ion
- 10. tion
- 11. cian
- 12. tune
- 13. ous
- 14. ous

- 15. ous
- 16. us
- 17. ious
- 18. eous
- 19. us
- 20. ius
- 21. us
- 22. ious
- 23. ous
- 24. uous

**unit 139**

- 1. ence
- 2. ence
- 3. ance
- 4. ence
- 5. ence
- 6. ence
- 7. ance
- 8. ance
- 9. ence
- 10. ance
- 11. ence
- 12. ence
- 13. ance
- 14. ance
- 15. ence
- 16. ible
- 17. ible
- 18. able
- 19. able
- 20. ible
- 21. ible
- 22. able
- 23. able
- 24. ible
- 25. ible
- 26. able
- 27. ible
- 28. able
- 29. able
- 30. ible

**unit 140**

- 1. anguish
- 2. chaos
- 3. treacherous
- 4. fraud
- 5. pauper
- 6. drought
- 7. cougar
- 8. thesaurus
- 9. bias
- 10. boisterous
- 11. camouflage
- 12. plausible
- 13. eloquent
- 14. aquarium
- 15. sausage
- 16. beard
- 17. leopard
- 18. cauliflower

- 19. influenza
- 20. against
- 21. thought
- 22. disguise

**unit 141**

- 1. minor
- 2. scared; sacred
- 3. sword; heir
- 4. principal; incidents; incidence; dessert
- 5. pedal; peddle
- 6. peer; pier
- 7. soared; desert; miner
- 8. capital; capitol; hair
- 9. Altogether
- 10. stationery

**unit 142**

Answers will vary.

**unit 143**

- 1. emerald
- 2. mosquito
- 3. macaroni
- 4. kindergarten
- 5. yacht; buoy
- 6. algebra; chemistry
- 7. antique
- 8. magazine
- 9. sauerkraut
- 10. paradise
- 11. gorilla; mosquito; mustang
- 12. sarong
- 13. veto
- 14. piano; tambourine

**unit 144**

Answers will vary.

**unit 145**

I always lose my notes when I get ready for a test, except for math, because I wrap my lunch in those and always have them near. My mother gives me unending advice about how to get through this problem, but, I assure you, it's a useless exercise. It'll be major coup if I ever get accepted into any college.

- 1. through; through
- 2. whether; weather
- 3. prosecute
- 4. which
- 5. angel
- 6. commas
- 7. inflict
- 8. implied
- 9. incredible
- 10. extrovert

**unit 146**

1. sacred
2. curse
3. earth
4. silent
5. terrain
6. dread
7. thing
8. icons
9. charm
10. gears
11. alter
12. lament
13. teach

**unit 147**

1. about
2. above
3. ache
4. after
5. alike
6. almost
7. already
8. always
9. aren't
10. attach
11. awful
12. balance
13. bottle
14. bridge
15. bury
16. certain
17. chief
18. choice
19. collar
20. dairy
21. dollar
22. doubt
23. edge
24. enough
25. **correct**
26. forty
27. ghost
28. guess
29. hoping
30. island
31. juice
32. knock
33. laugh
34. length
35. lovely
36. obey
37. often
38. people
39. piece
40. probably
41. receive
42. raise
43. safety
44. sense
45. stomach
46. Tuesday

47. toward
48. useful
49. **correct**
50. when
51. whose

**unit 148**

Check to see that words are spelled correctly.

**unit 149**

1. Albuquerque
2. Antarctica
3. August
4. Boise
5. Braille
6. Coca Cola®
7. Columbus
8. Connecticut
9. Declaration of Independence
10. Democrat
11. Des Moines
12. District of Columbia
13. Egypt
14. Eisenhower
15. February
16. Hiroshima
17. Hungary
18. Lincoln
19. Los Angeles
20. Massachusetts
21. Minnesota
22. Mediterranean
23. Nagasaki
24. Pacific
25. Panama Canal
26. Parliament
27. Pilgrims
28. Rio Grande
29. Republican
30. Romania
31. San Francisco
32. Statue of Liberty
33. Tallahassee
34. Tropic of Capricorn
35. Tuesday
36. Tyrannosaurus Rex
37. Vancouver
38. Venezuela
39. Wednesday
40. Zaire

**unit 150**

1. barracuda
2. leopard
3. panther
4. elephant
5. giraffe
6. crocodile
7. coyote
8. vulture
9. termite

10. rhinoceros
11. dinosaur
12. chameleon
13. hippopotamus
14. orangutan
15. opossum
16. tarantula
17. scorpion
18. llama
19. zebra

Answer: a fancy name for a zoo

**unit 151**

- actor  
actress  
attorney  
banker  
beautician  
butcher  
carpenter  
chef  
comic  
cook  
dancer  
electrician  
financier  
firefighter  
grocer  
judge  
lifeguard  
manager  
mayor  
mechanic  
minister  
musician  
nurse  
ophthamologist  
orthodontist  
pharmacist  
physicist  
plumber  
professor  
senator  
sculptor  
singer  
surgeon  
teacher  
waiter

**unit 152**

1. wiggle
2. frolic
3. gallop
4. propel
5. bounce
6. prowl
7. stagger
8. scamper
9. elude
10. maneuver
11. wobble
12. shiver

13. fluctuate
14. rotate
15. climb
16. hurdle
17. scurry
18. stalk
19. trundle
20. prance
21. crawl
22. flee
23. pursue
24. waddle
25. stomp

**unit 153**

CORRECT ("Delights")

- soufflé  
éclair  
tortilla  
spaghetti  
cocoa  
tempura  
cucumber  
casserole  
ketchup  
chocolate  
cinnamon

INCORRECT ("Entrees")

- cantaloupe  
cauliflower  
chili  
broccoli  
caramel  
sundae  
biscuits  
custard  
mocha  
lettuce  
barbecue chicken  
croissant  
pretzel  
avocado  
omelette or omelet  
sauerkraut  
lasagna

**unit 154**

- |          |          |
|----------|----------|
| 1. ious  | 16. orn  |
| 2. ant   | 17. y    |
| 3. ive   | 18. ile  |
| 4. ite   | 19. ous  |
| 5. ive   | 20. less |
| 6. tious | 21. y    |
| 7. ive   | 22. ic   |
| 8. al    | 23. ive  |
| 9. ous   | 24. er   |
| 10. ive  | 25. ing  |
| 11. ly   | 26. ing  |
| 12. y    | 27. ous  |
| 13. able | 28. ed   |
| 14. ic   | 29. ant  |
| 15. iar  | 30. ive  |



**unit 155**

1. acquaint
2. frequent
3. critique
4. sequel
5. clique
6. acquit
7. banquet
8. adequate
9. conquer
10. plaque
11. unique
12. consequences
13. delinquent
14. quarrel
15. grotesque
16. opaque
17. lacquer
18. masquerade

**unit 156**

Answers will vary.

**unit 157**

1. Wretched weather always seems to welcome us when we arrive in the wilderness for our weekly campout.
2. "Stop whining!" I whisper to my sister, as I waver and wobble, struggling to carry her weight.
3. Whoever took my wrench? Are there any witnesses to this theft which must have just happened?
4. We weren't writing words of wisdom that day while we wandered along the path in that weird school writing activity. Actually we weren't wholly paying attention.
5. I'm worried about the wheezing cough my sister Winnie has had ever since we swam by the whirlpool.
6. Wrinkled clothes, wicked jokes, and wasteful habits may lead adults to think you are without wisdom or good sense.
7. Her great wit is her best weapon against her withering shyness.
8. I'm not sure whether or not you can help us make wreaths, as that is the worst wreath I ever saw.
9. Where did you get that wretched pair of pants hanging around your waist? Whose are those weird

things? They make you look as if you weigh an extra fifty pounds.

10. Hopefully, widespread advertising will bring a large group of women here to the meeting on Wednesday.

**unit 158**

1. extinct
2. axis
3. exaggerate
4. examine
5. orthodox
6. complex
7. extravagant
8. exception
9. excite
10. exhale
11. excuse
12. excavate
13. reflex
14. extract
15. maximum
16. excess
17. complexion
18. exasperated

**unit 159**

1. convey
2. antonym
3. canyon
4. bicycle
5. synonym
6. envy
7. myth
8. defy
9. rhythm
10. anonymous
11. rhyme
12. symptoms
13. canopy
14. hypothesis
15. paralysis
16. mystify
17. apathy
18. chewy

**unit 160**

Across

3. hazard
4. seize
6. prize
8. apologize
12. ionize
14. quizzical
16. azure
18. haze
19. cozy
20. maize
21. rendezvous
23. laziness
24. buzzard

Down

1. craze
2. jeopardize
5. adz
7. realize
9. ozone
10. visualize
11. raze
13. blizzard
15. vocalize
17. razor
18. hypnotize
22. eczema

**unit 161**

1. laugh
2. laughable
3. laughter
4. amusement
5. comedy
6. comedian
7. comic
8. giggle
9. chuckle
10. mirth
11. hilarious
12. joke or jest
13. humorous
14. humor
15. merriment
16. witty
17. amusing

**unit 163**

February 6

Dear Abby,

I'm sorry you missed the show. Finally I have time to tell you about it.

It was an awkward trick for a gorilla, I admit, to climb onto a trapeze balancing an architect and an artichoke on opposite arms. Fortunately, we hired a talented gorilla. This may seem weird—not your obvious circus performance. But you have to admit, it was a unique idea. And certain people flocked to purchase expensive tickets.

The gorilla was a tame and calm one, with no obvious tendencies toward violence. He had practiced this trick many times, even performing it at a banquet before a group of famous politicians.

As the curtain went up and the show began, I was grateful that everything was going smoothly. And then—there was the mosquito that somehow got onto the gorilla's tongue. Our friendly pet turned fierce. In less than a minute, he swung down to the net, turned a huge somersault, and devoured the architect—whole, as an unbelieving crowd of spectators, including me, watched in horror.

Sorry you missed it.

Your friend,

Serena

18. wisecrack
19. mischief
20. buffoon
21. ridicule
22. prankster
23. ludicrous
24. amuse

**unit 162**

1. Incredible!
2. Awesome!
3. Preposterous!
4. Unbelievable
5. Shocking news
6. Exceptional!
7. No trespassing
8. Be quiet
9. Unthinkable
10. National Emergency!
11. Pay attention!
12. Irresistible!
13. Wow! Twelfth touchdown!
14. Hooray for me
15. Extravagant
16. Look out for the ambulance
17. Absolutely not!
18. Stop! Thief!
19. You're a nuisance
20. School is canceled!

# WORDS AND VOCABULARY

## SKILLS TEST ANSWER KEY

- |                       |                  |                 |
|-----------------------|------------------|-----------------|
| 1. gourmand           | 30. dis          | 58. h           |
| 2. stories & articles | 31. mis          | 59. f           |
| 3. garrulous          | 32. mal          | 60. g           |
| 4. horses             | 33. able         | 61. d           |
| 5. water              | 34. ist          | 62. bill        |
| 6. teeth              | 35. less         | 63. fall        |
| 7. clavicle           | 36. ness         | 64. trunk       |
| 8. boisterous         | 37. tion         | 65. break       |
| 9. a query            | 38. en           | 66. fire        |
| 10. abate             | 39. e            | 67. pauper      |
| 11. greed             | 40. f            | 68. chide       |
| 12. whirlpool         | 41. g            | 69. lanky       |
| 13. customers         | 42. b            | 70. physician   |
| 14. arrogant          | 43. d            | 71. f           |
| 15. rogue             | 44. a            | 72. g           |
| 16. awful             | 45. c            | 73. c           |
| 17. stab              |                  | 74. a           |
| 18. quibble           | 46-50. townhouse | 75. h           |
| 19. terminate         | mailbox          | 76. f           |
| 20. grumpy            | teakettle        | 77. g           |
| 21. stingy            | bodyguard        | 78. h           |
| 22. lethargic         | headache         | 79. d           |
| 23. fabrication       | 51. b            | 80. rest        |
| 24. boorish           | 52. l            | 81. scolding    |
| 25. burly             | 53. a            | 82. boxer       |
| 26. tri               | 54. d            | 83. loud-voiced |
| 27. trans             | 55. k            | 84. fear        |
| 28. mid               | 56. h            | 85. mice        |
| 29. re                | 57. e            | 86. tooth       |

# ANSWERS

## unit 174

(Some answers will vary.)

1. not a good idea
2. no
3. no
4. probably not
5. no
6. probably
7. no
8. probably not
9. no
10. probably
11. probably not
12. no
13. yes
14. no
15. no
16. you may want to
17. probably not
18. probably not
19. yes
20. probably
21. possibly dangerous
22. yes
23. yes
24. probably
25. possibly
26. no
27. no

## unit 175

(Explanations will vary.)

1. An abutment would be hard.
2. Brackish water is unclean.
3. Bedlam is not restful.
4. Bumping into a hippo could be dangerous.
5. A quagmire, or swamp, is dangerous for swimming.
6. Deceiving a professional boxer could get you beat up!
7. Loud talking is not allowed in libraries.
8. A whirlpool could sink you.
9. This could get you in trouble with the law.
10. Hiring a thief is illegal.
11. You are too weak to run.
12. The lion may eat you!
13. Your brother might get mad at you for laughing at him.
14. An octopod has 8 "hands" with suckers on them!

## unit 176

1. take a picture of it
2. eat it for supper
3. write it down
4. dust it
5. brush it
6. arrest it
7. cook it
8. discipline it
9. butter it
10. insure it
11. invest it
12. laugh at it
13. fear it
14. swat a fly with it
15. put it in a salad
16. fight with it
17. put it in a jar
18. get over it

## unit 177

1. varies
2. no
3. varies
4. no
5. a fire fighter
6. varies
7. yes
8. varies
9. varies
10. no
11. varies
12. no
13. varies
14. varies
15. no
16. varies, probably not
17. yes
18. varies
19. no
20. varies
21. varies
22. varies

## unit 178

(Guesses will vary.)

Definitions:

1. ingenious - clever
2. candid - honest
3. dearth - shortage
4. instigate - start
5. sullen - gloomy
6. trepidation - fear
7. plethora - abundance
8. patrons - customers

## unit 179

(Guesses will vary.)

Definitions:

1. sinister - evil
2. adept - skilled
3. agape - wide-open with amazement
4. arrogant - conceited
5. condone - approve of
6. concede - agree
7. ostracized - shut out
8. herculean - brave and strong
9. noxious - poisonous
10. abhor - hate

## unit 180

(Connotations will vary.)

Denotations:

1. robber - thief
2. hero - idealized person
3. laughter - noise caused by a laugh
4. argument - a dispute
5. party - a celebration
6. giant - something very huge
7. dark - absence of light

## unit 181

(Answers will vary.)

## unit 182

1. renovation
2. savant
3. salubrious
4. noxious
5. gracious
6. fastidious
7. nominal
8. just
9. delirious
10. prepare
11. homely
12. mischievous
13. continue

## unit 183

1. nauseous
2. weak
3. torturous
4. appetizer
5. greed
6. stab
7. chew
8. foolish
9. grind
10. useless
11. flashy

12. grumpy
13. severe
14. famous
15. stuffed
16. wiggle

## unit 184

1. quibble - bicker
2. impertinent - insolent
3. garbled - jumbled
4. maelstrom - whirlpool
5. piebald - spotted
6. moniker - nickname
7. rogue - rascal
8. viscera - organs
9. cavort - dance
10. morose - doleful
11. entreat - beg
12. arrogant - haughty

## unit 185

1. boisterous - serene
2. bona fide - bogus
3. adroit - inept
4. mercenary - benevolent
5. villain - hero
6. cognizant - oblivious
7. impair - improve
8. lethargic - energetic
9. lanky - burly
10. raucous - mellow
11. parsimonious - generous
12. absolve - condemn

## unit 186

1. proof
2. virtuous
3. polite
4. truth
5. lament
6. amiable
7. revenue
8. modesty
9. ruin
10. prim
11. hardship
12. confront
13. moderate
14. sacred
15. castle

## unit 187

1. knows - nose
2. oh - owe
3. daze - days
4. caller - collar
5. hey - hay
6. tents - tense

7. seize - seas
8. close - clothes
9. navel - naval
10. colonel - kernel
11. sent - scent
12. not - knot
13. tease - teas

**unit 188**

1. toe - tow
2. bass - base
3. sea - see
4. carrot - carat
5. rays - raise
6. peak - peak
7. throne - thrown
8. pair - pear
9. beau - bow
10. serf - surf
11. week - weak
12. doe - dough

**unit 189**

1. suspect
2. refuse
3. wind
4. desert
5. bow
6. contest
7. object
8. present
9. minute
10. row

**unit 190**

There are 31 uses of *up*.  
Student stories will vary. Check for uses of the words they choose.

**unit 191**

1. trunk
2. coaster
3. saw

Student drawings will vary.

**unit 192**

1. one who works with others
2. middle of the stream
3. not fit
4. bad taste
5. good fit
6. under the sea
7. life rhythms
8. across the Atlantic
9. behave wrong
10. one form
11. function wrong
12. not decent
13. write again
14. before the test
15. after the game
16. power above others

17. not polite
18. small bike
19. half a circle
20. against poverty
21. not a voter
22. vehicle with one wheel

**unit 193**

1. refix
2. transocean
3. triangles
4. mistakes
5. nonworker
6. malnourishment
7. quadruped
8. cowrite
9. midway
10. presurgery
11. substandard
12. untied
13. anti-drugs
14. forehead
15. nontoxic
16. microcomputer
17. improper
18. semiprofessional
19. interplanet
20. unicycle
21. midsize

**unit 194**

1. one who supervises
2. one who terrorizes
3. like juice or with juice
4. full of care
5. one who buys
6. without sleep
7. made of wood
8. in a tender manner
9. state of being mad
10. one who begs
11. to dream about
12. to make pure
13. act of adding
14. able to break

**unit 195**

1. thankful
2. liar
3. baldness
4. dentist
5. action
6. creepy
7. teachable
8. ageless
9. injection
10. silken
11. robber
12. motorize
13. bravely

Answer to puzzle:  
Last Chance Railroad

**unit 196**

Answers will vary.

**unit 197**

1. revision
2. biweekly
3. transport
4. unkindness
5. mobilize
6. mismanage
7. unbelievable
8. immovable
9. dishearten
10. illegally
11. successful
12. reusable
13. friendliness
14. reformer
15. unbeliever
16. transportable
17. legalize
18. invisible

**unit 198**

1. eye - tooth - brush
2. busy - body - guard
3. black - mail - man
4. match - box - car
5. boy - friend - ship - yard - stick
6. drive - in - side - show - case
7. sun - down - town - house - boat
8. pop - corn - meal - time - out
9. tea - cup - cake - walk - man
10. tender - foot - note - book - worm - wood - chuck
11. chain - saw - horse - fly - ball - room - mate
12. roller - skate - board - walk - way - side - show - down - town
13. bubble - gum - drop - out - side - kick - ball - park - way
14. copy - cat - fish - hook - up - hill - side - step - child

**unit 199**

1. headache
2. arrowhead
3. headlight
4. hothead
5. egghead
6. bullhead
7. copperhead
8. headphone
9. headband
10. thunderhead
11. headline
12. forehead
13. pigheaded
14. hardhead
15. letterhead

**unit 200**

1. b, a
2. d, c
3. e, f
4. g, h
5. i, j
6. l, k
7. n, m
8. o, p
9. r, q
10. t, s
11. v, u
12. x, w
13. z, y

**unit 201**

1. prognosis
2. plurality
3. explicit
4. contagious
5. waxing
6. mania
7. flaunting
8. staccato
9. slander
10. flotsam
11. vigorous
12. imminent
13. zenith
14. inferring
15. both

**unit 202**

1. put your foot in your mouth
2. wear your heart on your sleeve
3. don't give me any of your lip
4. go out on a limb
5. eat crow
6. under the gun
7. cook your goose
8. raining cats and dogs
9. a bone to pick
10. get behind the 8 ball
11. lose your head
12. spill the beans

**unit 203**

Answer: There are 34 figures of speech in the story. Student stories will vary.

**unit 204**

(Answers may vary due to differing dictionary information.)

1. French - a kind of tournament
2. Russian - emperor
3. French - wine taster
4. Persian - leg, foot, garment
5. Italian - short for pianoforte, which means soft and loud
6. New Latin - eight-footed
7. French - one who walks on tiptoe
8. Middle English - contestant
9. Middle English - long-haired star
10. Latin - young, a youth

**unit 205**

(Answers may vary due to differing dictionary information.)

1. Portuguese and Spanish - taken from a native plant name in Guinea
2. Old French - crisp or curly
3. American Spanish - a round cake
4. New Latin - a round swelling
5. American Spanish - framework of sticks set on posts
6. Spanish - little sheath
7. French - thin plate
8. German - sour cabbage
9. Portuguese - honey
10. Italian - food made from barley

**unit 206**

1. garbage
2. shy
3. danger
4. superb
5. cheap
6. copy
7. ally
8. retain
9. initial
10. dull

**unit 207**

1. flush  
(insolvent is opposite of rich; penniless is opposite of flush)
2. teasing  
(mischief is a mild form of violence; teasing is a mild form of insult)
3. miser  
(a squirrel hoards nuts; a miser hoards money)
4. rock  
(a minnow is a small fish; a pebble is a small rock)
5. angry  
(someone who is embarrassed may blush; someone who is angry may fume)
6. bucket  
(a mitt catches a baseball; a bucket catches a drip)
7. fetid  
(perfume smells fragrant; garbage smells fetid)
8. veteran  
(a novice is new at something and is therefore inexperienced; someone who is seasoned, or experienced, is a veteran)

**unit 208**

1. shrew - birds
2. meristem - animals
3. stoic - heads of churches
4. sacrum - weapons
5. miter - musical instruments
6. capriole - food
7. basilisk - legal terms
8. bribe - funny sayings or jokes
9. clavichord - body parts or bones
10. lexicon - words meaning appearance
11. novella - diseases

# GRAMMAR & USAGE

## SKILLS TEST ANSWER KEY

- |                                  |                         |                                  |
|----------------------------------|-------------------------|----------------------------------|
| 1. C                             | 41. pinched             | 83. I                            |
| 2. B                             | 42. will pinch          | 84. I                            |
| 3. A                             | 43. has pinched         | 85. D                            |
| 4. we                            | 44. had pinched         | 86. I                            |
| 5. took, swam                    | 45. will have pinched   | 87. D                            |
| 6. G                             | 46. her                 | 88. D                            |
| 7. E                             | 47. its                 | 89. I                            |
| 8. F, H                          | 48. eat                 | 90. "When is high tide?" James   |
| 9. D, I                          | 49. give                | asked the lifeguard at Main      |
| 10. you                          | 50. are                 | Street Beach.                    |
| 11. terrify me to death          | 51. laid                | 91. "High tide," he answered,    |
| 12. R                            | 52. lie                 | "is around 3:15 P.M. today."     |
| 13. F                            | 53. set                 | 92. " <u>Moby Dick</u> is my     |
| 14. C                            | 54. rose                | favorite novel of all,"          |
| 15. F                            | 55. Who                 | announced Nick.                  |
| 16. mouse                        | 56. Who's               | 93. Is Roberto, the              |
| 17. mothers-in-law               | 57. whom                | oceanographer, from              |
| 18. beaches                      | 58. scariest            | San Juan, Puerto Rico?           |
| 19. heroes                       | 59. worse               | 94. Usually sea anemones,        |
| 20. the swimmer's goggles        | 60. more easily         | starfish, and fiddler crabs      |
| 21. Jess' raft (or Jess's raft)  | 61. I                   | all hang around tide pools.      |
| 22. the lifeguards' appetites    | 62. T                   | 95. Governor Wilson read         |
| 23. tension, rope, boat, skis or | 63. I                   | the Sunday Beach Times           |
| water skis, family, vacations    | 64. T                   | on Malibu Beach.                 |
| 24. Janelle, Walters (used as an | 65. A, B, D             | 96. There were seven beach       |
| adjective), Lake, Tahoe          | 66. F, G                | chairs left; we had eight        |
| 25. her, their, who, it, me, she | 67. J, for              | people.                          |
| 26. adjective                    | 68. M, testing          | 97. A Canadian diver said        |
| 27. noun                         | 69. K, swimming         | he would dive off the            |
| 28. noun                         | 70. L, to catch, to see | Golden Gate Bridge on            |
| 29. verb                         | 71. I                   | New Year's Day.                  |
| 30. adverb                       | 72. S                   | 98. She told me of Gina's        |
| 31. preposition                  | 73. S                   | accomplishments: 6 world         |
| 32. adjective                    | 74. I                   | championships, 8 U.S.            |
| 33. noun                         | 75. adjective           | championships, and 7             |
| 34. verb                         | 76. adjective           | Olympic gold medals.             |
| 35. adverb                       | 77. adverb              | 99. The winds are rising and the |
| 36. adjective                    | 78. adjective           | sea's waves are angry; it must   |
| 37. noun                         | 79. adverb              | mean a storm is coming.          |
| 38. became, has become           | 80. noun                | 100. Wait! I left my copy of     |
| 39. said, has said               | 81. adverb              | <u>The Old Man and the Sea</u>   |
| 40. did, has done                | 82. D                   | on the beach!                    |

# ANSWERS

## unit 220

- |      |       |       |       |
|------|-------|-------|-------|
| 1. E | 6. I  | 11. D | 16. ? |
| 2. E | 7. ?  | 12. ? | 17. D |
| 3. D | 8. D  | 13. E | 18. E |
| 4. ? | 9. I  | 14. D | 19. D |
| 5. E | 10. E | 15. D | 20. ? |

## unit 221

### I.

- Hundreds of gulls were flying around the dock.
- On rainy days, does the fog obliterate your view?
- A whale's big, bulky body can be a fearsome sight.
- A huge animal does not necessarily have a huge brain.
- The giant whale leaped into the air and startled everyone.
- Gory scenes on television have frightened some people away from ocean swimming.
- Yesterday, three high school kids and two pelicans had a fishing contest.
- Can you guess the results of the contest?
- In spite of fair warning, the boys took the jet skis beyond the breakwater.
- Why do teenage boys often ignore good advice?

### II.

- Hundreds/were flying
- fog/does obliterate
- body/can be
- animal/does have
- whale/leaped, startled
- scenes/have frightened
- kids, pelicans/had
- you/can guess
- boys/took
- boys/ignore

## unit 222

- |        |         |
|--------|---------|
| 1. SOS | 6. SOS  |
| 2. AOK | 7. AOK  |
| 3. SOS | 8. SOS  |
| 4. SOS | 9. SOS  |
| 5. SOS | 10. SOS |

## unit 223

- LIGHTHOUSE
- LOITER
- SKINNY

- SLOWLY
- EVERYTHING
- WISE
- THERE
- REGURGITATE
- FISHING
- NOBODY
- DISAPPEAR
- TOUGH
- YESTERDAY
- MAINE

- ILLUSTRATE  
Soup of the Day:  
LOBSTER STEW

## unit 224

- I. **Nouns:** board, surfboard, board-walk, surf, octopus, flipper, boat, shark, sea, cave, ray, crab, storm, reef, coral, killer, danger, eye, magic, arm, den, rag, bed, dew, tack, war, water, fan, eel, walk

**Verbs:** kill, row, bet, drag, cut, attack, talk, scare, explore, surf, flip, lurk, slid, swim, stalk, walk

**Adjectives:** weak, huge, stormy, blue, dark, coral, long, killer, deep, slimy, fat, male, raw, wily, low, old, bad, wet, warm, murky, magic, icy, my

**Adverb:** oddly

II. Answers will vary.

## unit 225

Answers will vary.

## unit 226

- |                    |                     |
|--------------------|---------------------|
| 1. weekdays (1)    | 13. men.....(4)     |
| 2. weekends (1)    | 14. women(4)        |
| 3. beaches...(2)   | 15. shakes.....(1)  |
| 4. cans.....(1)    | 16. drinks.....(1)  |
| 5. bottles.....(1) | 17. sandwiches      |
| 6. glasses.....(2) | (2)                 |
| 7. coolers....(1)  | 18. candies....(3)  |
| 8. boxes.....(2)   | 19. supplies...(3)  |
| 9. adults.....(1)  | 20. kites.....(1)   |
| 10. children..(4)  | 21. rentals.....(1) |
| 11. babies.....(3) | 22. dune            |
| 12. rooms.....(1)  | buggies....(3)      |

## unit 227

- shark's fin
- lifeguards' whistles
- Gus's radio or Gus' radio
- somebody's surfboard
- children's laughter
- surf's sound
- gulls' cries

- teenagers' suntan
- bell buoys's warnings
- ocean swimmers' strength
- sandals' soles
- boats' colorful sails
- footprints' stories
- no one's beach

A VERY SHORT SEA STORY  
Answers will vary.

## unit 228

- |    |      |       |
|----|------|-------|
| I. | 1. H | 6. A  |
|    | 2. E | 7. D  |
|    | 3. G | 8. I  |
|    | 4. B | 9. J  |
|    | 5. F | 10. C |

- |     |            |          |
|-----|------------|----------|
| II. | 1. suit    | 4. boys, |
|     | 2. frisbee | Megan    |
|     | 3. ball    | 5. girl  |

- |      |                         |
|------|-------------------------|
| III. | 1. who, interrogative   |
|      | 2. that, relative       |
|      | 3. himself, reflexive   |
|      | 4. those, demonstrative |
|      | 5. whoever, indefinite  |

## unit 229

- |    |                |             |
|----|----------------|-------------|
| I. | 1. some        | 6. sweaters |
|    | 2. Ken         | 7. vase     |
|    | 3. John & Eric | 8. pieces   |
|    | 4. members     | 9. we       |
|    | 5. nautilus    | 10. trophy  |

- |     |                       |
|-----|-----------------------|
| II. | 1. None—they          |
|     | 2. cats—their         |
|     | 3. someone—her        |
|     | 4. winds—themselves   |
|     | 5. Both—their         |
|     | 6. either—her         |
|     | 7. Neither—his        |
|     | 8. Jim and Troy—their |
|     | 9. J-24—its           |
|     | 10. ship—its          |

## unit 230

- |          |           |           |
|----------|-----------|-----------|
| 1. Who   | 8. whom   | 15. who   |
| 2. Whose | 9. who    | 16. who's |
| 3. whom  | 10. Who's | 17. whom  |
| 4. Who's | 11. Whose | 18. who's |
| 5. whom  | 12. who   | 19. Who   |
| 6. Who   | 13. whom  | 20. whom  |
| 7. Who   | 14. whom  |           |

## unit 231

**DIVE:** she dives, she dived (dove), she will dive, she has dived (dove), she had dived (dove), she will have dived (dove).

**STAND:** I stand, I stood, I shall stand, I have stood, I had stood, I shall have stood

**BLOWN:** it is blown, it was blown, it will be blown, it has been blown, it had been blown, it will have been blown

**FIGHT:** they fight, they fought, they will fight, they have fought, they had fought, they will have fought

**HIDE:** we hide, we hid, we will hide, we have hidden, we had hidden, we shall have hidden

## unit 232

- |      |       |       |
|------|-------|-------|
| 1. L | 6. L  | 11. A |
| 2. A | 7. A  | 12. A |
| 3. L | 8. L  | 13. A |
| 4. L | 9. A  | 14. A |
| 5. L | 10. A | 15. L |

## unit 233

- |                    |                   |
|--------------------|-------------------|
| 1. catch           | caught            |
|                    | have caught       |
| 2. swim            | swam              |
|                    | have swum         |
| 3. rise            | rose              |
|                    | have risen        |
| 4. bite            | bit               |
|                    | have bitten       |
| 5. dive            | dived (dove)      |
|                    | have dived (dove) |
| 6. fly             | flew              |
|                    | have flown        |
| 7. freeze          | froze             |
|                    | have frozen       |
| 8. sit             | sat               |
|                    | have sat          |
| 9. hang (execute)  | hanged            |
|                    | have hanged       |
| 10. hang (suspend) | hung              |
|                    | have hung         |
| 11. drink          | drank             |
|                    | have drunk        |
| 12. shake          | shook             |
|                    | have shaken       |
| 13. shrink         | shrank            |
|                    | have shrunk       |
| 14. speak          | spoke             |
|                    | have spoken       |
| 15. swear          | swore             |
|                    | have sworn        |
| 16. grow           | grew              |
|                    | have grown        |
| 17. sink           | sank              |
|                    | have sunk         |
| 18. drown          | drowned           |
|                    | have drowned      |
| 19. sing           | sang              |
|                    | have sung         |

RIDDLE:  
If you lie down and say you have laid down, you will have lied.

- unit 234**  
1. I 6. T 11. T  
2. I 7. I 12. T  
3. T 8. I 13. T  
4. I 9. T 14. I  
5. T 10. T 15. T

- unit 235**  
1. wheelbarrow (D)  
2. shelter (D)  
3. me (D)  
4. me (I) job (D)  
5. shells (D)  
6. him (I), beating (D)  
7. faith (D), him (D)  
8. Hector (D), them (I), scare (D)  
9. stuff (D)  
10. lady (I), umbrella (D)  
11. husband (I), relief (D)  
12. most (D)  
13. me (I), threats, insults (D)  
14. guy (D), on-lookers (D)  
15. beach (D)  
16. you (D)

- unit 236**  
I. 1. lay 7. rose, laid  
2. laid 8. set  
3. raised 9. lying  
4. raising, set 10. rose  
5. lay 11. laid  
6. lay, sat 12. sitting, rise  
II. 1. raised 4. lie  
2. rose 5. sitting  
3. laid 6. sat

- unit 237**  
I. 1. NO, is going  
2. YES  
3. YES  
4. NO, are blowing  
5. YES  
6. NO, make  
7. NO, is required  
8. NO, are  
9. YES  
10. NO, are  
11. NO, is doing  
12. YES  
13. YES  
14. NO, trips  
II. 1. geese fly  
2. a submarine surfaces  
3. the sea captain commands  
4. angel fish swim

5. sand crabs scurry  
**unit 238**  
I. **Adjectives** to be identified:  
a, leisurely, 100-yard, the, off-shore, loose, unusual, coral, flowering, colored, sea, fire, moray, unfriendly, some, bread, the, tiny, reef, cheese, the, larger, hungry, leftover, their, nosy, scouting, the, unexplored, the, the, cool, clear, Caribbean, the, shallower, in-shore, the, the, buzzing, colorful, the, craggy, the, ocean, the, a, voluminous, the, the, the, a, the, other, the, troubled, the, a, frenzied, our, the, deep, blue, ocean, this, frightening, a, dark, foreboding

- II. Answers will vary.  
**unit 239**  
I. Answers will vary.  
II. Original response required.

- unit 240**  
I. **Adjectives:**  
1. stubborn, more stubborn, most stubborn  
2. good, better, best  
3. easy, easier, easiest  
4. bad, worse, worst  
5. many, more, most  
6. late, later, latest  
7. happy, happier, happiest  
8. loud, louder, loudest

- Adverbs:**  
1. well, better, best  
2. happily, more happily, most happily  
3. badly, more badly, most badly  
4. easily, more easily, most easily  
II. 1. faster  
2. fastest  
3. nearer  
4. biggest  
5. closest

- unit 241**  
1. While I was riding on my bicycle, a stray dog bit me. (A stray dog bit me while I was riding on my bicycle.)  
2. The swimmers were shocked to see a fin jutting out of the sea.

3. While our dog was eating its food, I suddenly noticed how fat he was becoming.  
4. The ocean looked very peaceful as I was riding horseback along the beach.  
5. Why did you buy, from a store, salt water taffy that was unwrapped?  
6. Joe lost, by mistake, the music he had written.  
7. My mother told me at least ten times this week to put on sunscreen.  
8. I repaired with great care the raft that was punctured by the shark.

- unit 242**  
*Incorrect*      *Correct*  
1. \_\_\_\_\_ correct  
2. couldn't hardly could hardly  
3. do nothing do anything  
4. \_\_\_\_\_ correct  
5. haven't but have but  
6. can't . . . no can't . . . any, can . . . no  
7. \_\_\_\_\_ correct  
8. never . . . no never . . . any  
9. \_\_\_\_\_ correct  
10. isn't no is no, isn't any  
11. \_\_\_\_\_ correct  
12. \_\_\_\_\_ correct  
13. haven't . . . no haven't . . . any  
14. not . . . nothing not . . . anything  
double positive: YES, YES

- unit 243**  
I. **PREPOSITIONS** which should be identified are:  
around    between    underneath  
above    after    within  
beside    on    behind  
toward    across    near  
below    against  
over    through

(Placement on drawing will vary.)  
II. Answers will vary.

- unit 244**  
I. 1. Caught  
2. Jumping, beached  
3. given  
4. keeping  
5. Encouraged  
6. Moving  
7. Pleased

- II. Answers will vary (suggested answers):  
1. lying on the sand  
2. dashing against the rescuers  
3. Given lots of help  
4. working together  
5. Rejoicing in their success  
6. watching the operation  
7. Satisfied with a job well done

- unit 245**  
I. 1. Juggling, subject  
2. skiing, direct object  
3. breaking, object of preposition  
4. surfing, subject  
5. watching, predicate nominative  
6. sunning, indirect object  
7. playing, direct object  
8. boating, object of preposition  
9. reading, indirect object  
10. taking, direct object

- II. Answers will vary.  
**unit 246**  
I. 1. to eat  
2. to locate  
3. to sail  
4. to be  
5. to quit  
6. to swim, to survive  
II. Original response required.

- unit 247**  
Combinations will vary (suggested combinations):  
1. A giant sea turtle washed ashore after he had swallowed a gold ring.  
2. While he was changing, his pants blew away.  
3. When my family vacationed in Bermuda, they witnessed a drowning.  
4. While she was cleaning his fish, he fell off the dock.  
5. His date fainted after he kissed her.

- unit 248**  
1. Adj. 8. Noun  
2. Adj. 9. Adv.  
3. Adv. 10. Noun  
4. Adj. 11. Adv.  
5. Noun 12. Noun  
6. Adv. 13. Adv.  
7. Adj. 14. Adv.



**unit 249**

- |      |       |       |       |
|------|-------|-------|-------|
| 1. C | 6. O  | 11. O | 16. O |
| 2. O | 7. C  | 12. C | 17. O |
| 3. O | 8. O  | 13. O | 18. O |
| 4. C | 9. C  | 14. C | 19. C |
| 5. O | 10. O | 15. C | 20. C |

**unit 250**

I. *Envelope:*

I. M. Tickt  
124 Opaque Cr.  
Waterless, IA 69843

Ms. Crystal Clear  
Happy Day Dive Supply  
Corporation  
133 See Weed Blvd.  
Miami, Florida 47856

*Letter:*

124 Opaque Circle  
Waterless, IA 69843  
May 15

Ms. Crystal Clear, Marketing  
Manager  
Happy Day Dive Supply  
Corporation  
133 See Weed Boulevard  
Miami, FL 47856

Dear Ms. Clear,

I am returning under separate cover a Happy Day diving mask which I purchased from your company thirty days ago. It was advertised as cloud-proof and leak-proof. It clouds. It leaks. I would like to have my money returned, and I would respectfully suggest that you withdraw your advertising from all markets until you can deliver the product you describe. You might also consider changing your name and the name of your company.

Sincerely yours,  
I. M. Tickt

II. Original response required

**unit 251**

Answers will vary.

**unit 252**

YES, WE HAVE NO BANANAS!  
COME AND GET 'EM!

DONUT HOLES, BAGELS,  
COFFEE, AND CROISSANTS

BOSTON, MASSACHUSETTS  
107 MI.

POSITIVELY  
NO FISHING!

LOBSTER  
1-3 LBS.

DEW DROP INN  
TIRED? DROP HERE!

The BICYCLE DOCTOR  
JOE WHEELER, JR.  
"Fix It in a Minute!"

BOATS and JET SKIS  
FOR RENT  
OPEN 7 a.m. - 6 p.m.

Dear Jose,

It's Christmas. Where are you?  
We've called and called.  
Please get in touch. We miss  
you!

Worried,

Maria

**unit 253**

A PERFECT DAY  
FOR DIVING

The day was clear and calm—  
extraordinary for off-shore diving.  
We packed wet suits, towels,  
masks, snorkels, flippers, soft  
drinks, and chips and threw in  
some squeeze cheese for the fish.

"Last man into the truck's a flat  
flounder!" yelled Jed.

"Oh, no! Where'd I put my new  
watch?" I asked. It was waterproof  
and had a luminous dial. I got it  
'specially for diving.

Honk!  
"Coming! Yes, there it is! OK!"  
I jammed my Super Sharks  
baseball cap onto my head.

A moment later, seven of us  
were crammed into the 4 x 4,  
headed to the emerald waters of  
Eden Rock—off to coral reefs,  
caves, and fluorescent fish. Maybe  
we'd see a ray or a barracuda or a  
sand shark. Maybe we'd tease a fat  
old moray eel out of his cave.

"Adventure, here we come!"

**unit 254**

Others were aware the wave was  
coming, but Will was facing his  
friends Todd, Kate, and Ramon on  
the beach. Oh, he should have  
been watching. The waves here in  
Laguna Beach, California, are  
pretty formidable, unlike the

waves in his lake at home. Well,  
this wave caught him, so it seems,  
smack in the back. It tossed him  
up in the air, threw him many  
yards forward, dragged him deep  
under itself, and scraped him down  
along the crunchy, sandy bottom.  
Battered, shaken, and just plain  
terrified, he pulled himself up onto  
the beach. "Hey, you guys," he  
moaned to his laughing friends,  
"why didn't you warn me, and why  
are you laughing?" Slowly, it  
dawned on him. His bathing suit,  
he realized, had been torn away by  
the wicked, mischievous wave.

**unit 255**

1. Mark Twain once said, "A lie  
can travel halfway around the  
world while the truth is  
putting on its shoes."
2. You will probably agree with  
this Roger Lewin observation:  
"Too often, we give children  
answers to remember rather  
than problems to solve." OR  
You will probably agree with  
Roger Lewin that "too often,  
we give . . ."
3. Do you know what H. G. Wells  
meant when he proposed,  
"Civilization is a race between  
education and catastrophe"?
4. Thomas Jefferson stated, "I am  
a great believer in luck, and  
find that the harder I work,  
the more I have of it."
5. Will Rogers says, "Everybody is  
ignorant, only on different  
subjects!"

- II. 1. "Look," cried Louis, "it's a  
rainbow!"
2. "I can hardly wait," chat-  
tered Benita. "Tomorrow is  
my birthday!"
3. "Do you know how old I'll  
be?" she asked. "Thirteen—  
a real teenager!"

**unit 256**

- |        |         |
|--------|---------|
| 1. A : | 7. A :  |
| 2. B : | 8. B ;  |
| 3. A ; | 9. B ;  |
| 4. B ; | 10. B ; |
| 5. B ; | 11. B : |
| 6. A : | 12. B ; |

**unit 257**

1. The boss raged into the  
office, screamed obscenities  
at his staff—and his pants  
fell to his knees.
2. The vicar's knickers are thicker  
and slicker—a clever rhyme.
3. Aunt Prunella had a face that  
matched her personality—  
pinched, pink, and powdery.
4. One hundred-year-old George  
Galguggener swims eight  
miles a day—an amazing feat!
5. He raged into the office and  
screamed at his staff with  
obscenity-laden language.
6. A mad dog debriefed the vicar,  
making him the ex-knickered  
vicar.
7. Aunt Prunella is the seventy-  
six-year-old mother-in-law of  
the president-elect, Peter  
Papagallo.
8. Mr. Galguggener, a one-  
hundred-year-old ex-marine  
frogman, says he can swim  
forty-six miles a week.
9. When he screamed, his pants  
fell down. (I think he popped  
his belt.)
10. The vicar appeared at the  
service in a pair of patched  
knickers. (What a nerd!)
11. Aunt Prunella was the  
descendant (and, of course,  
namesake) of the great  
Proserpina Prunella Piccadilly  
Pepperdine.
12. The oldest swimmer in town  
(he claims to be one hundred)  
swims eight miles every day.

**unit 258**

- I. 1. isn't 9. wouldn't  
2. aren't 10. won't  
3. wasn't 11. can't  
4. weren't 12. shouldn't  
5. don't 13. haven't  
6. doesn't 14. hasn't  
7. didn't 15. hadn't  
8. couldn't
- II. 1. you have 7. we have  
2. I would 8. they  
3. it is would  
4. you are 9. he will  
5. there 10. where is  
would 11. must not  
6. it will 12. I have

# STUDY & RESEARCH

## SKILLS TEST ANSWER KEY

1. 1. panic
2. perform
3. pharaoh
4. pizza
5. poorhouse
6. prickly
21. dictionary
22. encyclopedia
23. 1990, 1991, 1992, 1995
24. 3
25. 1994-96
26. 19
- 27–30. Answers will vary. Give credit for any insightful observations students make about the scene. (e.g. open safe, picture on floor, window broken, glass lying outside, weather, shape of footprints, lack of water inside, keys on floor, broken necklace, broken lamp, direction of footprints, etc.)
31. c
32. c
33. b
34. d
35. d
36. a
37. b
38. b
39. c
40. b
41. b
42. c
43. a
44. d
45. d
46. a
47. b
48. c
49. d
50. b
2. 1. mysteries
2. mysterious
3. mystery
4. mystic
5. mystical
6. mysticism
7. mystify
8. mystique
3. bicarbonate of soda
- beta particle
- Bible
- biathlon
- Bernhardt, Sarah
- Better Business Bureau
4. d
5. c
6. 3
7. 5
8. Belize
9. El Salvador
10. Nicaragua, Costa Rica, Panama
11. missing animals
12. car thefts
13. suspicious noises
14. Detective S. Wiley
15. robberies
16. thesaurus
17. dictionary
18. almanac
19. atlas
20. biographical dictionary

# ANSWERS

## unit 270

THE CHEF BAKED  
IT IN A PIE

## unit 271

| TOP:  | BOTTOM:        |
|-------|----------------|
| 1. G  | 1. Zagreb      |
| 2. F  | 2. Zambezi     |
| 3. P  | 3. Zanzibar    |
| 4. C  | 4. Zapotec     |
| 5. D  | 5. Zedekiah    |
| 6. E  | 6. Zen         |
| 7. M  | 7. Zeppelin    |
| 8. N  | 8. Zeus        |
| 9. J  | 9. ziggurat    |
| 10. L | 10. Zimbabwe   |
| 11. A | 11. zinc       |
| 12. Q | 12. zinnia     |
| 13. T | 13. Zircon     |
| 14. I | 14. zither     |
| 15. R | 15. zodiac     |
| 16. K | 16. zola       |
| 17. S | 17. zoology    |
| 18. B | 18. zoonosis   |
| 19. O | 19. Zuider Zee |
| 20. H | 20. Zurich     |

## units 272-273

1. 33-37
2. 118-149
3. 150-175
4. 235
5. 190-194
6. 89-91
7. 16-31, 230

8. 43
9. 70-117
10. 140
11. 195-197
12. 100, 101, 123

## units 274-275

1. 100
2. 41
3. 287, 114
4. 28, 175
5. 264
6. 194-196, 204-209, 210-223
7. 19
8. 90-109, 288-289, 292
9. 250-251, 256-259, 266, 272
10. 120-135, 191, 211
11. 21
12. 52-53
13. 192-193, 224
14. 25
15. 199
16. 13
17. 47, 192-193, 202-203, 222
18. 216, 217
19. 154-160
20. 189, 201

## unit 276

(see below)

## unit 277

maps will vary

## unit 278

1. a right, granted by law, to a composer, author, or publisher to exclusive publication of a work
2. from the time it is created until 50 years after the author's death (75 years after creation if anonymous)
3. *Math in the Real World of Architecture and Brothers and Other Annoyances*
4. *Math in the Real World of Architecture*
5. Dr. I. Noahtall
6. *Training Your Pet Python, Brothers and Other Annoyances, Tales That Twist Your Tongue*
7. *Training Your Pet Python*
8. Bodyworks Press, Inc.
9. *Training Your Pet Python*
10. *Math in the Real World of Architecture*

## unit 279

- |       |       |
|-------|-------|
| 1. Q  | 14. B |
| 2. S  | 15. I |
| 3. E  | 16. F |
| 4. R  | 17. L |
| 5. U  | 18. M |
| 6. P  | 19. T |
| 7. N  | 20. C |
| 8. Y  | 21. D |
| 9. O  | 22. G |
| 10. J | 23. K |
| 11. X | 24. W |
| 12. H | 25. A |
| 13. V |       |

## unit 280

Answers will vary.

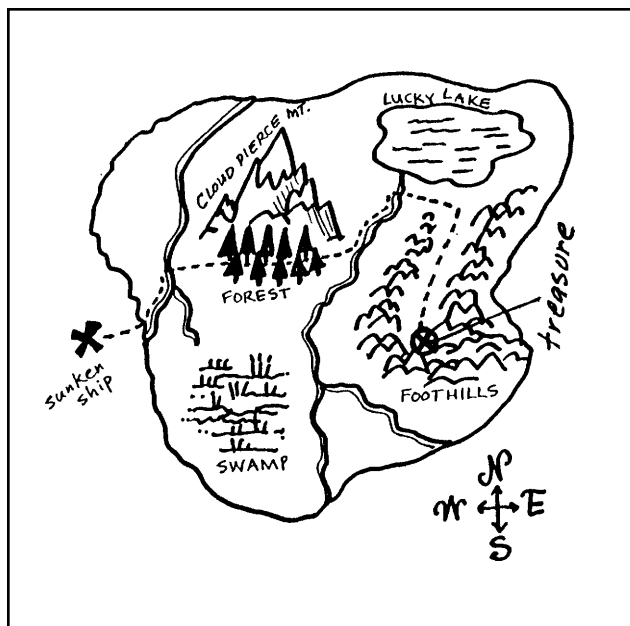
## unit 281

1. Boston, Budapest, Birmingham, Boise
2. Answers will vary.
3. Brazzaville
4. Bogotá
5. Baffin Island
6. Brisbane
7. Bulgaria
8. Bhutan
9. Bratislava & Budapest
10. Beirut
11. Answers will vary.

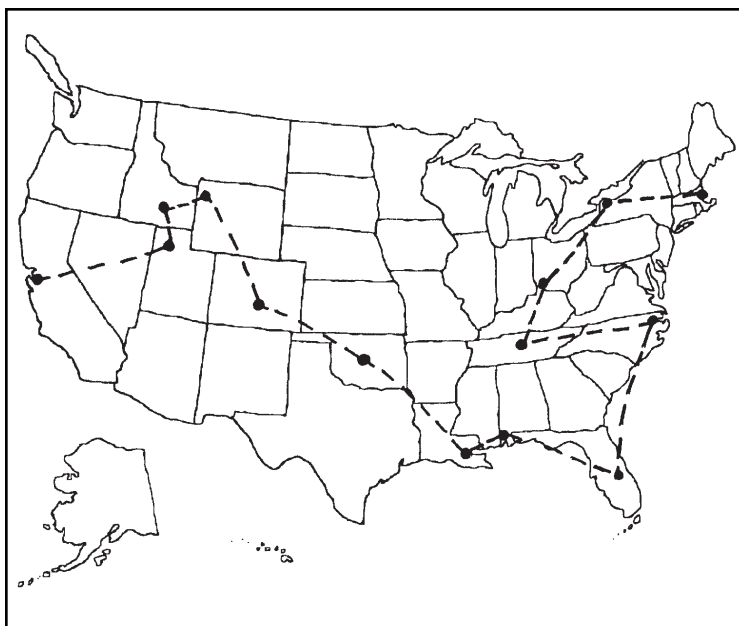
## unit 282

(see below)

## unit 276



## unit 282



**unit 283**

1. The brilliant detective in many of Agatha Christie’s famous mysteries
2. A mystery of deep space— a hypothetical passageway in space and time
3. Volcanic island in the South Pacific that mysteriously appears and disappears
4. Well-known TV mystery-suspense series
5. Secret religious rites of ancient Greece
6. Also known as a “ghost” fish
7. Pilot who disappeared with her plane on an around-the-world flight in 1937—no trace was ever found.
8. The name of one of Agatha Christie’s most famous mysteries, about a murder which takes place on the train “The Orient Express”
9. A fabled monster of Greek legend, with human head and a lion’s body—legend is that the sphinx asked a mysterious riddle of anyone who passed it, and those who couldn’t answer were killed.
10. Another of Agatha Christie’s detectives—an old lady who solves crimes as a pastime
11. A lonely island west of Chile, with huge rock monoliths, the origin of which is a mystery
12. A mysterious disappearing ship
13. Detective main character of Mickey Spillane’s mysteries
14. Playwright who wrote a famous play called “Ghosts”
15. A 1968 study of UFO sightings
16. An area in the Atlantic Ocean near Bermuda where about 70 ships and planes are said to have mysteriously disappeared leaving no trace
17. copies of old manuscripts of Biblical times, which were missing and searched for over centuries
18. American ship from which all passengers and crew mysteriously disappeared—a mystery never solved
19. 1952 U.S.Air Force Project to investigate the possibility of UFOs
20. French composer who created a piece of music called “The Mysterious Barricades”

**unit 284**

1. c
2. c
3. b
4. c
5. d
6. d
7. a
8. e
9. a
10. c
11. b
12. c
13. c
14. a

**unit 285**

Answers will vary due to differences in encyclopedia sets.

**unit 286**

Answers will vary.

**unit 287**

Answers may vary, as different sources list different “wonders.” A possible set:

1. Mt. Everest — south central Asia
2. Victoria Falls — on Zambezi River in south central Africa
3. Grand Canyon —Arizona
4. Great Barrier Reef—Coral Sea, off east coast of Australia
5. Northern Lights—skies of the far northern hemispheres
6. Paricutin volcano —west of Mexico City
7. Harbor at Rio de Janeiro, Brazil—Brazil

**unit 288**

1. Victor Petrenko
2. Seattle Slew
3. Rocky Marciano
4. Brazil
5. answers will vary
6. Martina Navratilova
7. Henie—figure skating  
Mantle—baseball  
Namath—football  
Becker—tennis  
Korbut—gymnastics  
Kersee—track & field
8. O. J. Simpson
9. United States
10. NASCAR—car racing  
NRS—shooting  
PGA—golf  
NFL—football  
NBA—basketball  
NHL—ice hockey

**unit 289**

Susan Brownwell Anthony: 1820–1906, Rochester, NY, school teacher, crusader for women’s right to vote

Cesar Chavez, 1927– , Arizona, Migrant Worker, started National Farm Workers Association, a labor union for Mexican-American migrant workers’ families

Hiram Fong, 1925– , Hawaii, laborer & lawyer & senator, worked to unite races

Shirley Chisholm, 1924– , Brooklyn, NY, educator and first black congress-woman, worked for laws raising standard of living for poor of all races

Gloria Steinem, 1934– , NY, NY, writer & speaker & feminist, worked for equal rights for minority groups, especially women

**unit 290**

- F—Charlie Chan
- G—The Saint-Simon Templar
- J—Perry Mason
- B or H—Miss Jane Marple
- A—Mike Hammer
- H or B—Hercule Perot
- C—Nero Wolfe
- E—Father Brown
- D—Cordelia Gray
- I—Travis McGee

**unit 291**

Answers will vary.

**unit 292**

Answers will vary.

**unit 293**

Answers will vary.

**unit 294**

1. precise time—dictionary
2. plant it or put it in a flower arrangement—dictionary
3. answers will vary—Reader’s Guide
4. answers will vary— almanac
5. dictionary
6. 1943—almanac
7. gravity—encyclopedia
8. 45 hours or 2175 miles—atlas
9. answers will vary—Reader’s Guide
10. answers will vary—thesaurus
11. Mother Theresa—almanac
12. Ecuador—atlas

**unit 295**

1. Tennessee
2. Ernie
3. Ford
4. Hilton
5. 3rd, November, 1969
6. South Sandwich
7. Tennessee Williams

**unit 296**

1. thesaurus
2. almanac
3. atlas
4. almanac
5. *The Guinness Book*
6. encyclopedia
7. atlas
8. dictionary
9. atlas index
10. thesaurus
11. language text's index
12. dictionary

**unit 297**

1. Boston and Chicago
2. 2026 mi
3. Cheyenne
4. 478 mi
5. Boston Red Sox
6. Albany, NY
7. Boise, ID
8. 3250 mi
9. Boston, MA and Crater Lake, OR
10. approx. 2820 mi

**unit 298**

(see above right)

**unit 299**

1. 13
2. 1, 2, 3, 4, 5, 7, 8, 9, 11, 12, 13, 14, 15, 17, 18, 19, 20
3. 6, 7, 14
4. 9, 11
5. 16
6. 13
7. 10
8. 20
9. 3
10. none
11. 3, 13, 19
12. 6

**unit 300**

1. 3, 1, 2
2. Hammurabi
3. Egyptians added percussion instruments to the orchestra
4. 2000 years
5. 1500 years
6. about 400 B.C.
7. 500 years old
8. 365-day calendar was invented

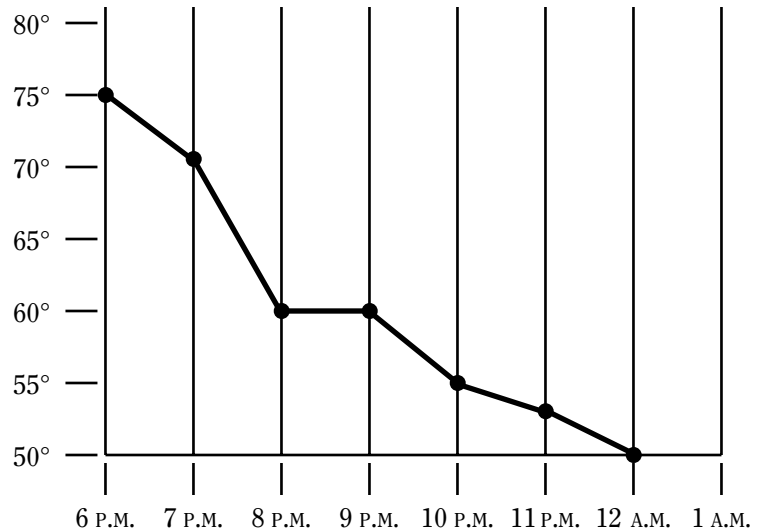
**unit 301**

1. Walter, Mexico, jewel thief
2. Archie, Chicago, cyber-terrorist
3. Max, Florida, forger
4. Ivan, Switzerland, drug trafficker

**unit 298**

- |                      |           |                          |
|----------------------|-----------|--------------------------|
| I. 1. 41°            | 4. 1 A.M. | 6. 9:30 P.M. and 12 A.M. |
| 2. 3 A.M.            | 5. 9 P.M. | 7. 40°                   |
| 3. 1 A.M. and 2 A.M. |           |                          |

II. Graph should look like this:



**units 302–303**

Questions will vary. Check to see that they are good questions that are based on the clues and picture. A good answer to the mystery: Any one of the eyewitnesses could have thrown the tacks on the road causing the bowling ball truck to suffer a flat tire. Only a few could have used the magnet to pull the hinges off the back of the truck just as Harry crossed the street. But only Rachel is named in the last sentence of *Moby Dick*. The last sentence of the Epilogue contains the phrase “It was Rachel.”

**units 304–305**

1. 18
2. 3
3. 8

Answers for 4–10 will vary.

**unit 307**

1. Give credit if student writes a few of these: clever, self-centered, conceited, chauvinistic, proud, arrogant, best-looking, handsome
2. without respect
3. his favorite wife
4. by using flattery—complimenting his singing
5. the farmer and his sons
6. by appealing to his vanity
7. to the highest tree
8. the forest

**unit 308**

Answers will vary.

**unit 309**

Summaries will vary.

**unit 310**

Answers will vary.

**unit 311**

1. Author: Lucy Maude Montgomery  
Subject: life of an orphan
2. Answers will vary.
3. Author: Ray Bradbury  
Subject: science fiction
4. Author: Mark Twain  
Subject: adventures of teenage boy
5. Answers will vary.
6. Answers will vary.
7. Author: Jane Austen  
Subject: relationships; 18th century
8. Answers will vary.
9. Answers will vary.
10. Answers will vary.
11. Answers will vary.
12. Answers will vary.
13. Author: Charles Dickens  
Subject: adventures of an orphan boy
14. Answers will vary.
15. Answers will vary.
16. Author: Madeline L'Engle  
Subject: science fiction
17. Answers will vary.
18. Answers will vary.

# WHOLE NUMBERS & INTEGERS

## SKILLS TEST ANSWER KEY

Each answer is worth 1 point, except questions 30–34 and 76–85, which are worth 2 points.

- |   |                   |                           |
|---|-------------------|---------------------------|
| 1. two million, three hundred four thousand, six hundred eleven | 28. 870,000       | 57. -8                    |
| 2. one hundred ten thousand, thirteen                           | 29. 210,000       | 58. -19                   |
| 3. five million, ten  | 30. C             | 59. -5                    |
| 4. 222,017  | 31. A             | 60. -7                    |
| 5. 4,000,710  | 32. D             | 61. 640                   |
| 6. 69,043   | 33. D             | 62. 111                   |
| 7. 6 hundred thousands  | 34. C             | 63. 14                    |
| 8. 0 ten thousands  | 35. 39, 57, 18    | 64. 45                    |
| 9. 9 hundreds   | 36. 9, 21, 22, 15 | 65. 7977                  |
| 10. 0 tens  | 37. 18            | 66. 4700                  |
| 11. 2 ten millions (or 20 millions)                             | 38. 80            | 67. 40,959                |
| 12. 600,006   | 39. 1,000,000     | 68. 14                    |
| 13. 601,160   | 40. 256           | 69. 200,000               |
| 14. 610,116   | 41. 216           | 70. 10,000                |
| 15. 661,106   | 42. 200           | 71. 4000                  |
| 16. 666,601   | 43. 3000          | 72. 939                   |
| 17. -17   | 44. 2980          | 73. 7                     |
| 18. -6  | 45. 50,000        | 74. 100,000,010           |
| 19. -4  | 46. +33           | 75. 4                     |
| 20. 7   | 47. -16           | 76. Q; \$210,000          |
| 21. 21  | 48. 0             | 77. 119,000               |
| 22. 3, 7, 19, 23  | 49. -7            | 78. 35° F                 |
| 23. 6, 8, 20  | 50. +12           | 79. 728                   |
| 24. 51,700  | 51. -17           | 80. \$90                  |
| 25. 9,374,200   | 52. -15           | 81. 2 miles               |
| 26. 300,000   | 53. +28           | 82. + 30°                 |
| 27. 2,815,000   | 54. -90           | 83. 151 pounds            |
|   | 55. -3            | 84. 224 shoes (112 pairs) |
|   | 56. +9            | 85. 99 points             |

# ANSWERS

## unit 18

- two million, seven hundred eighty-three thousand, seven hundred twenty-six
- seven million, three hundred twenty-two thousand, five hundred sixty-four
- one million, five hundred eighty-five thousand, five hundred eighty-seven
- 2,833,511
- 1,744,124
- 3,711,043
- 8,863,164
- two million, three hundred eighty-two thousand, one hundred seventy-two
- one million, eight hundred thirty-one thousand, one hundred twenty-two
- four million, three hundred eighty-two thousand, two hundred ninety-seven
- one million, six hundred seven thousand, one hundred eighty-three
- 1,566,280
- 372,242
- 1,972,961

## unit 19

- \$9,000,000
- five million
- ten millions
- ten thousands
- 400,000
- \$600
- 100,000,000 (one hundred million)
- 2
- 100,000 (one hundred thousand)
- 800,000 (eight hundred thousand)

## unit 20

- $3000 + 900 + 60 + 2$
- $1000 + 900 + 40 + 5$
- $700,000 + 60,000 + 7,000 + 200$
- $100 + 60 + 2$
- $4000 + 900 + 60 + 2$
- $50,000 + 1,000 + 10 + 1$
- $2,000 + 900 + 60 + 2$
- $1,000 + 900 + 10 + 3$
- 200,000,000
- $6,000 + 900 + 40 + 2$
- $3,000 + 600$
- $1,000 + 300 + 30 + 6$

## unit 21

- NY Knicks—\$1000  
LA Lakers—\$600  
Chicago Bulls—\$400  
Houston Rockets—\$375  
LA Clippers—\$275  
Charlotte Hornets—\$180  
Minnesota Timberwolves—\$174
- 3 tickets to Chicago Bulls—\$300
- 5 tickets to Chicago Bulls—\$800
- 3 tickets to LA Clippers—\$105

- 5 tickets to Houston Rockets—\$675
- Minnesota, Charlotte, LA Clippers, Houston, Chicago
- Answers will vary.

## unit 22

- |           |             |
|-----------|-------------|
| 1. 530    | 21. 3,000   |
| 2. 790    | 22. 3,000   |
| 3. 1,250  | 23. 5,000   |
| 4. 6,870  | 24. 9,000   |
| 5. 800    | 25. 2,000   |
| 6. 40     | 26. 5,000   |
| 7. 10     | 27. 8,000   |
| 8. 60     | 28. 55,000  |
| 9. 570    | 29. 544,000 |
| 10. 2,270 | 30. 7,000   |
| 11. 600   | 31. 40,000  |
| 12. 1,200 | 32. 260,000 |
| 13. 600   | 33. 90,000  |
| 14. 800   | 34. 210,000 |
| 15. 1,100 | 35. 460,000 |
| 16. 400   | 36. 790,000 |
| 17. 600   | 37. 90,000  |
| 18. 4,000 | 38. 760,000 |
| 19. 4,200 | 39. 10,000  |
| 20. 900   | 40. 50,000  |

## unit 23

- |        |             |
|--------|-------------|
| A = 18 | 1. wildcats |
| B = 22 | 2. bengals  |
| C = 27 | 3. lions    |
| D = 12 | 4. panthers |
| E = 23 | 5. tigers   |
| G = 28 | 6. bobcats  |
| H = 35 | 7. cougars  |
| I = 60 | 8. jaguars  |
| J = 33 |             |
| L = 29 |             |
| N = 26 |             |
| O = 11 |             |
| P = 13 |             |
| R = 44 |             |
| S = 49 |             |
| T = 24 |             |
| U = 15 |             |
| W = 9  |             |
| Y = 17 |             |

## units 24–25

- frame 1 = 9  
frame 2 = 16
- a. frame 1 = 16  
b. frame 2 = 24
- spare  
frame 1 = 19  
frame 2 = 28
- a. 13  
b. 17  
c. 3  
d. 7

- Scores in frames 1–2–3–4–5:  
Sylvia : 6–15–35–53–62  
Mark: 8–25–32–48–56  
Jana: 8–28–46–54–62  
Jay: 19–28–46–55–64

## unit 26

- a. 3  
b. 8
- a. 7  
b. 7
- a. C  
b. A  
c. C  
d. A  
e. C  
f. A
- a. 7, 7  
b. 5
- a.  $(12 + 7) + 3$  (May vary.)  
b.  $(6 \times 8) \times 2$  (May vary.)  
c.  $9 + (5 + 11)$  (May vary.)  
d.  $(10 \times 4) + (10 \times 3)$   
e.  $6(5 + 2)$   
f.  $(1 + 9) + 5$  (May vary.)  
g.  $(7 \times 4) \times 12$  (May vary.)  
h.  $11 \times (2 \times 7)$  (May vary.)  
i.  $8 \times (10 \times 2)$  (May vary.)  
j.  $14 + (3 + 8)$  (May vary.)

## unit 27

- |               |                  |             |
|---------------|------------------|-------------|
| 1. a. 0       | c. 0             | e. 4        |
| b. 2          | d. $\frac{1}{2}$ | f. 9        |
| 2. a. inverse | d. identity      | g. zero     |
| b. zero       | e. identity      | h. identity |
| c. identity   | f. inverse       | i. identity |
| 3. 1. E       | 4. B             | 7. A        |
| 2. C          | 5. F             | 8. A        |
| 3. D          | 6. E             |             |

## unit 28

- 3, 6, 9, 12, 15, 18, 21, 24, 27, 30
- 6, 12, 18, 24, 30, 36, 42, 48, 54, 60
- 7, 14, 21, 28, 35, 42, 49, 56, 63, 70
- 2, 4, 6, 8, 10, 12, 14, 16, 18, 20
- a. Cougars 36; Panthers 34  
b. Bobcats 94; Wildcats 90  
c. Lions 36; Tigers 37  
d. Cougars 110; Jaguars 97

## unit 29

- |                          |         |
|--------------------------|---------|
| 1. 42–42                 | 13. 45  |
| 2. 24 baseballs          | 14. 300 |
| 3. 60 pounds             | 15. 30  |
| 4. yes                   | 16. 252 |
| 5–10. Answers will vary. | 17. 60  |
| 11. 154                  | 18. 624 |
| 12. 60                   | 19. 750 |

**units 30–31**

1. I. 14 mi  
II. 15 mi  
III. 12 mi
2. I. 98 min  
II. 105 min  
III. 84 min
3. I. 20 mi  
II. 18 mi  
III. 19 mi
4. I. 120 min  
II. 108 min  
III. 114 min
5. I. A-B-E-H-L-O-S  
II. 21 mi
6. 105 min
7. 20 mi

**unit 32**

1. 5-\$10  
3-\$27  
7-\$28     Total = \$205  
4-\$92  
8-\$48
2. 9-\$108  
6-\$174  
7-\$35     Total = \$446  
27-\$108  
3-\$21
3. 5-\$15  
3-\$42  
7-\$42     Total = \$233  
2-\$116  
9-\$18

**unit 33**

1. \$25 million
2. \$8 million
3. \$16 million
4. \$7,142,857
5. \$35 million
6. \$15 million
7. \$10 million
8. \$400,000
9. a. \$250,000  
b. \$10,000

**unit 34**

- |         |         |
|---------|---------|
| C = 90  | R = 632 |
| T = 700 | P = 774 |
| O = 3   | U = 29  |
| N = 8   | L = 12  |
| A = 4   | B = 31  |
| Y = 9   | E = 22  |
| H = 6   |         |

Answer: Coach Paul “Bear” Bryant

**unit 35**

|    | 1. yes | 2. no | 3. yes | 4. yes | 5. yes |     |     |    |     |    |
|----|--------|-------|--------|--------|--------|-----|-----|----|-----|----|
|    | 58     | 153   | 228    | 523    | 80     | 104 | 180 | 89 | 532 | 90 |
| 2  | x      |       | x      |        | x      | x   | x   |    | x   | x  |
| 3  |        | x     | x      |        |        |     | x   |    |     | x  |
| 4  |        |       | x      |        | x      | x   | x   |    | x   |    |
| 5  |        |       |        |        | x      |     | x   |    |     | x  |
| 6  |        |       | x      |        |        |     | x   |    |     | x  |
| 10 |        |       |        |        | x      |     | x   |    |     | x  |

**unit 36**

Answer reads: GO TEAM

**unit 37**

- |      |      |            |               |          |          |
|------|------|------------|---------------|----------|----------|
| 1. D | 5. H | 9. F       | 13. 1,000,000 | 17. 196  | 21. 5000 |
| 2. A | 6. J | 10. I      | 14. 1,080,000 | 18. 25   | 22. 1600 |
| 3. G | 7. C | 11. 392    | 15. 576       | 19. 2916 |          |
| 4. B | 8. E | 12. 43,200 | 16. 1,250,000 | 20. 1440 |          |

**unit 38**

- |   |   |
|---|---|
| 1. $2 \times 10^3$ m; $4 \times 10^2$ m   | 6. $8 \times 10^3$ sec                                  |
| 2. $5 \times 10^3$ ft; $6 \times 10^3$ in | 7. $5 \times 10^4$ yd                                   |
| 3. $1 \times 10^5$ mm                     | 8. a. $1.2 \times 10^2$ sec     b. $2.3 \times 10^3$ yd |
| 4. 60 m or 60,000 mm                      | 9. $9 \times 10^3$ mm                                   |
| 5. 2390 mm or 890 cm                      | 10. 95,000 mm   |

**unit 39**

- |            |             |                                    |
|------------|-------------|------------------------------------|
| 1. 920 yds | 5. 9500 yds | 9. 8700 yds                        |
| 2. 680 yds | 6. 1400 yds | 10. 10,600 yds                     |
| 3. 890 yds | 7. 2700 yds | 11. C-S-G-V-R-D-C or C-D-R-V-G-S-C |
| 4. 730 yds | 8. 3100 yds | 12. 23,870 yds                     |

**unit 40**

- |                |             |                     |                  |
|----------------|-------------|---------------------|------------------|
| 1. 298 kph     | 6. 45 kph   | 10. 4 = parachutist | 9 = board sailor |
| 2. 97 kph      | 7. 230 kph  | 7 = racing pigeon   | 5 = ice yacht    |
| 3. 3529.56 kph | 8. 1224 kph | 1 = jet plane       | 2 = jet vehicle  |
| 4. 206 kph     | 9. 86 kph   | 6 = water skier     | 8 = skateboarder |
| 5. 556 kph     |             | 3 = hydroplane      |                  |

**unit 41**

- |   |                                  |
|---|----------------------------------|
| 1. 10,000                                   | 5. \$145                         |
| 2. Answers will vary according to the year. | 6. \$225                         |
| 3. About 22 mph                             | 7. \$390; \$130 each installment |
| 4. \$430                                    | 8. \$200                         |

**units 42–43**

1. \$5
2. \$9
3. Total: \$261; each boy's share: \$87
4. Mountain Biking \$12; Picnic \$14; Water Slide \$18; Jet Ski \$100; Video Games \$9; Dinner \$25; Bowling \$27; Movies \$5; Total \$210. Each boy's share: \$70
5. Total \$104; Change \$16
6. Total \$42; \$21 each
7. Total: \$54; \$18 each
8. \$8
9. Total 18 hours or 6 hours per boy.
10. (a) 648; (b) approx. 23 cents



**units 44–45**

Estimates will vary somewhat.

1. \$210
2. Answers will vary.
3. about \$420–\$450
4. a shadow cap
5. turf shirt: \$30; pro jersey: \$200; shadow cap: \$20; Shipping \$10  
Total about \$250
6. \$750–\$760
7. Answers will vary.
8. \$170
9. \$180–\$190

**unit 46**

1. C = 8
2. S = 15
3. F = 12
4. G = 22
5. E = 7
6. T = 13
7. D = 19
8. P = 5

**unit 47**

1.  $M + 3 = 7$  or  $M = 7 - 3$
2.  $4P = 24$  or  $P = \frac{24}{4}$
3.  $L + 24 = 60$  or  $L = 60 - 24$
4. a.  $4D = 48$  or  $D = \frac{48}{4}$   
b.  $2D = W$
5.  $75B = 300$  or  $B = \frac{300}{75}$
6.  $2H - 100 = 300$
7.  $2K = 6$  or  $K = \frac{6}{2}$
8.  $R + 11 = 15$  or  $R = 15 - 11$

**unit 48**

1. subtract
2. add
3. divided the number of points by the number of games
4. 873
5. Neither would win; it would be a 49–49 tie
6. M Jordan; 127
7. D Robinson; 78
8. M Jordan; 385
9. add
10. Answers will vary.

**unit 49**

1. A—Kerri Strug
2. F—Joe Montana
3. H—Juwan Howard
4. D—Penny Hardaway
5. E—Cigar
6. B—Evander Holyfield
7. G—Emmit Smith
8. C—Shaquille O’Neal

**units 50–51**

You will need to look at students’ papers to see if points are located correctly on the number lines.

**unit 52**

St. Louis – Los Angeles – Antwerp

- |         |             |
|---------|-------------|
| A = +1  | O = -17     |
| B = +9  | P = -3      |
| C = -15 | Q = +12     |
| D = +3  | R = -14     |
| E = -8  | S = +6      |
| F = +14 | T = -21     |
| G = -6  | U = +7      |
| H = -16 | V = -18     |
| I = -5  | W = +15     |
| J = -4  | X = -13     |
| K = -12 | Y = +13     |
| L = +5  | Z = +18     |
| M = +17 | Blank = -11 |
| N = +16 |             |

**unit 53**

Name: Coubertin

Motto: Faster, Higher, Stronger

1. -49
2. -36
3. +65
4. +36
5. -72
6. -56
7. +48
8. -54
9. +20
10. +81
11. -42
12. +72
13. +48
14. -72
15. -56
16. +42
17. -54
18. 0
19. +42
20. -72
21. -56
22. +72
23. +48
24. -56
25. -36
26. +20
27. 0
28. -72
29. -56

**unit 54**

- a. +6
- b. 0
- c. -8
- d. +4
- e. +9
- f. -6
- g. +7
- h. +8
- i. -4
- j. +7
- k. +5
- l. -9
- m. -6
- n. -7
- o. -9
- p. +8
- q. -7
- r. -6
- s. +9
- t. +5
- u. -4
- v. +16
- w. +9
- x. -12
- y. -6
- z. +11
- ?. +25
- @. +5
- #. -5
- \$. -8
- %. -12
- &. -10
- \*. +4
- >. +10
- <. 0
- =. +4

Answer: Tiger Woods

**unit 55**

1. -7
2. +16
3. -6
4. -6
5. -8
6. +12
7. +6
8. -6
9. -3
10. +10

Answer: Kerri Strug

# GEOMETRY & MEASUREMENT

## SKILLS TEST ANSWER KEY

Questions are worth 1 point each.

- |   |                           |                              |
|---|---------------------------|------------------------------|
| 1. $\overleftrightarrow{XY}$  | 33. 113 in                | 67. 4.5 cm <sup>2</sup>      |
| 2. any of these answers: $\overline{AB}$ , $\overline{AE}$ ,<br>$\overline{AD}$ , $\overline{BC}$ , $\overline{BF}$ , $\overline{CG}$ , $\overline{FG}$ , $\overline{EF}$ , $\overline{DC}$ | 34. 4 mi                  | 68. 2.625 cm <sup>2</sup>    |
| 3. $\overrightarrow{AX}$ , $\overrightarrow{BY}$ , $\overrightarrow{BX}$ , $\overrightarrow{AY}$  | 35. G                     | 69. 3.5 cm <sup>3</sup>      |
| 4. X, A, B, Y   | 36. H                     | 70. 8 cm <sup>3</sup>        |
| 5. $\overline{EF}$ & $\overline{AB}$ , $\overline{AB}$ & $\overline{CD}$ , $\overline{AD}$ & $\overline{BC}$ ,<br>$\overline{BF}$ & $\overline{CG}$ , or $\overline{BC}$ & $\overline{FG}$  | 37. F                     | 71. acute                    |
| 6. numerous combinations  | 38. E                     | 72. obtuse                   |
| 7. no   | 39. I                     | 73. equilateral              |
| 8. ABFE or ABCD or BCGF   | 40. 8.25 cm <sup>2</sup>  | 74. scalene                  |
| 9. 2  | 41. 120 ft <sup>2</sup>   | 75. isosceles                |
| 10. 1   | 42. 9375 ft <sup>2</sup>  | 76. b                        |
| 11. C, H  | 43. 706.5 in <sup>2</sup> | 77. d                        |
| 12. C   | 44. 42.25 cm <sup>2</sup> | 78. a                        |
| 13. C, D  | 45. 3 & 7, 4 & 5, 4 & 1   | 79. c                        |
| 14. B, D  | 46. 1, 4, 5, or 6         | 80. c                        |
| 15. G   | 47. 5 & 6                 | 81. b                        |
| 16. F   | 48. no                    | 82. a                        |
| 17. A   | 49. yes                   | 83. d                        |
| 18. E   | 50. 8                     | 84. b                        |
| 19. 3, 4, 5   | 51. yes                   | 85. a                        |
| 20. 1   | 52. 1 & 2 or 6 & 7        | 86. d                        |
| 21. 2   | 53. cube                  | 87. c                        |
| 22. 5   | 54. 4096 m <sup>3</sup>   | 88. b                        |
| 23. Any 2 of these: $\overline{EF}$ , $\overline{CD}$ , $\overline{GH}$   | 55. cylinder              | 89. d                        |
| 24. CD  | 56. 157 in <sup>3</sup>   | 90. c                        |
| 25. AB  | 57. sphere                | 91. chord                    |
| 26. no  | 58. 381.5 in <sup>3</sup> | 92. 54.48 kg                 |
| 27. yes   | 59. cone                  | 93. decagon                  |
| 28. 8.5   | 60. 565.2 in <sup>3</sup> | 94. 5.79 m                   |
| 29. 35 m  | 61. prism                 | 95. quadrilateral            |
| 30. 25.12 yd  | 62. 120 cm <sup>3</sup>   | 96. 6                        |
| 31. 112 m   | 63. pyramid               | 97. 1750                     |
| 32. 94 ft   | 64. 266.67 m <sup>3</sup> | 98. 1.7                      |
|   | 65. 11 cm                 | 99. 16                       |
|   | 66. 8 cm                  | 100. 1436.03 cm <sup>3</sup> |

# ANSWERS

## unit 66

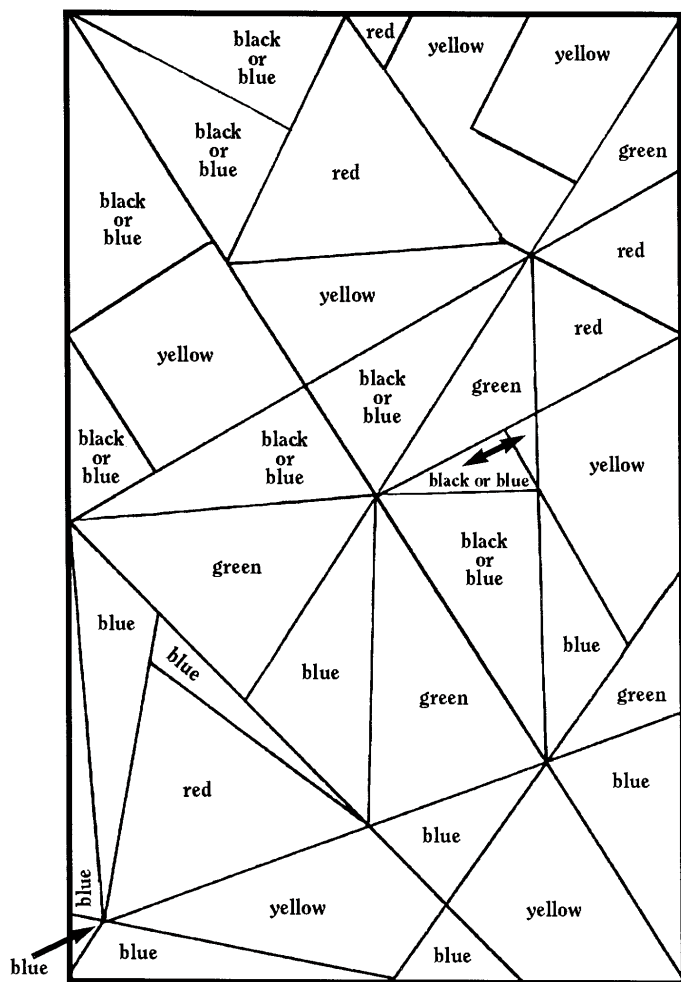
Answers will vary somewhat, as there are many choices for each.

- Points: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O
- NI and OJ
- 3-6. There are several correct answers for each of these.
- Planes: ABFG, ABCD, CDHE, GFEH, BCEF, GADH

## unit 67

- acute
- acute
- obtuse
- obtuse
- obtuse
- obtuse
- right
- obtuse
- acute
- acute
- acute
- supplementary, 107
- complementary, 47
- supplementary, 152
- complementary, 69

## unit 72



## units 68-69

- Information Desk
- Laundry Building
- Annex
- Answers will vary.
- Medical Center
- Market
- True
- False
- True
- Answers will vary.

## units 70-71

- Sudan
- Sweden
- Kuwait
- United Kingdom
- Jamaica
- Taiwan
- South Africa
- Tanzania
- 9-10. Student designs will vary.

## unit 73

- E
  - B
  - C
  - D
  - A
- Check student drawings for accuracy.

## units 74-75

- 635.5 m
- 54 m
- 84 ft
- 140 ft
- 200 m
- 393 ft
- 154 m
- 500 yds
- 40.82 m
- 60 m
- 80 ft
- 162.8 m
- 914 m
- 376.8 ft
- 240 ft
- 39 m
- 331 ft, 10 in

**unit 76**

1. Point N
2.  $\overline{TQ}$  and  $\overline{MK}$
3. NT, NK, NQ, NM
4.  $\angle MNH$  or  $\angle HNT$
5.  $\angle HNK$
6.  $\overline{MK}$  and  $\overline{TQ}$ ,  $\overline{MK}$  and  $\overline{JQ}$
7.  $\overline{TQ}$ ,  $\overline{JQ}$ ,  $\overline{MK}$
8.  $\overline{MH}$ ,  $\overline{HT}$ ,  $\overline{TJ}$ ,  $\overline{JK}$ ,  $\overline{KQ}$ ,  $\overline{QM}$
9.  $\angle MNH$ ,  $\angle MNT$ ,  $\angle TNK$ ,  $\angle MNQ$ ,  $\angle QNK$ ,  $\angle HNT$
10. 24 feet
11. N
12. S
13. A
14. A
15. N
16. N
17. S
18. N
19. A
20. A

**unit 77**

1. 9.42 m
2. 62.8 in
3. 106.156 m
4. 38.07 in
5. 4.71 in
6. 19,108 cm
7. 7.85 in
8. 7.85 m
9. 8.59 in
10. 21.98 ft

**unit 78**

1. similar
2. similar
3. neither
4. congruent
5. congruent
6. congruent

Athlete's name: Becky Dyroen-Lancer

**unit 79**

1. 441 ft<sup>2</sup>
2. 30 ft<sup>2</sup>
3. 6500 ft<sup>2</sup>
4. 162 ft<sup>2</sup>
5. 702 ft<sup>2</sup>
6. 45 ft<sup>2</sup>
7. 50 m<sup>2</sup>

**unit 80**

1. 17ft<sup>2</sup>
2. 12m<sup>2</sup>
3. 43.4 ft<sup>2</sup>
4. 3.08 m<sup>2</sup>
5. 24 ft<sup>2</sup>
6. 1.35 yd<sup>2</sup>

7. 60 yd<sup>2</sup>
8. 90 ft<sup>2</sup>

**unit 81**

Message is: GOOD LUCK

**unit 82**

- I.
  1.  $r = 4.25$  in,  $A = 56.72$  in<sup>2</sup>
  2.  $r = 1.91$  in,  $A = 11.46$  in<sup>2</sup>
  3.  $r = .75$  in,  $A = 1.77$  in<sup>2</sup>
  4.  $r = 1.16$  in,  $A = 4.23$  in<sup>2</sup>
  5.  $r = 1.12$  in,  $A = 3.93$  in<sup>2</sup>
  6.  $r = 1.25$  in,  $A = 4.91$  in<sup>2</sup>
  7.  $r = 4.5$  in,  $A = 63.59$  in<sup>2</sup>
  8.  $r = 4$  in,  $A = 50.24$  in<sup>2</sup>
  9.  $r = 1.5$  in,  $A = 7.07$  in<sup>2</sup>
- II.
  1. basketball
  2. soccer ball
  3. volleyball
  4. women's softball
  5. baseball
  6. tennis ball
  7. men's team handball
  8. women's team handball
  9. table tennis ball

**unit 83**

1. 2
2. 4
3. 7
4. 105
5. 9, 11, 12
6. 14, 16, 17
7. 18
8. 60
9. 60
10. 120
11. 19, 20, 21, 23, 25, 27, 29, 31, 32
12. 22, 24, 30

**unit 84**

1. A
2. C
3. I
4. F
5. B
6. K
7. L
8. H
9. J
10. E
11. G
12. D

**unit 85**

1. 769.3 cm<sup>3</sup>
2. 1000 cm<sup>3</sup>
3. 1125 cm<sup>3</sup>
4. 1046.86 cm<sup>3</sup>
5. 301.44 cm<sup>3</sup>
6. 1099 cm<sup>3</sup>

7. 753.6 cm<sup>3</sup>
8. 2064.19 cm<sup>3</sup>

Figure # 3 has the largest capacity.

**units 86-87**

1. 174,375 m<sup>3</sup>
2. 2,592,100 m<sup>3</sup>
3. 44,550 m<sup>3</sup>
4. b
5. a
6. c
7. 70 ft<sup>3</sup>
8. 60 yd<sup>3</sup>
9. 160 m<sup>3</sup>
10. 42,875 m<sup>3</sup>
11. H

**unit 88**

1. centimeters
2. meters
3. liter
4. meters
5. kilometers
6. centimeters
7. kilograms
8. centimeters
9. grams
10. centimeters
11. cubic centimeters
12. kiloliters
13. meters
14. no
15. no

**unit 89**

1. 10,000 mm
2. 354 cm
3. 0.137 km
4. 10,000 cm
5. 1234 cm
6. 100 mm
7. 12,450,000 cm
8. 0.12 cm
9. 45,670 mm
10. 990 m
11. 0.0567 km
12. 0.4567 m
13. 0.569 m
14. 0.9843 m
15. 90 cm
16. 0.456 m
17. 0.00027 m
18. 87.61 cm
19. 851 m
20. 0.000567 km

**units 90-91**

1. feet
2. feet
3. pounds
4. miles
5. feet

Answers

6. inches
7. miles
8. yards
9. ounces
10. inches
11. inches
12. pounds
13. pounds
14. feet or yards
15. pounds
16. miles
17. yards
18. miles
19. pounds
20. feet
21. ounces
22. feet
23. quarts
24. feet or yards

**unit 92**

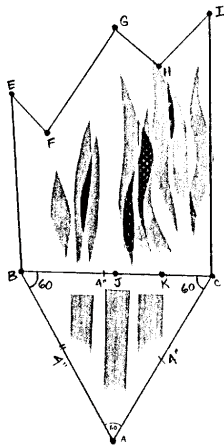
1. 35 yards
2. 44 feet
3. 147 pounds
4. 35 minutes
5. 4 inches
6. about  $66\frac{2}{3}$  yards
7. 3 feet
8. 55 feet
9. 27 minutes
10. 16 pounds

**unit 93**

1. feet
2. second
3. miles
4. miles
5. feet
6. inches
7. inches
8. miles
9. inches
10. ounces
11. feet
12. feet

**units 94-95**

Finished figure should look like this:



**unit 96**

Measurements will be approximate. Give credit for answers close to these:

1. A = 60 ft<sup>2</sup>    P = 32 ft
2. A = 36 ft<sup>2</sup>    P = 24 ft
3. A = 48 ft<sup>2</sup>    P = 32 ft
4. A = 36 ft<sup>2</sup>    P = 24 ft
5. A = 24 ft<sup>2</sup>    P = 20 ft
6. A = 56 ft<sup>2</sup>    P = 28 ft
7. A = 15 ft<sup>2</sup>    P = 18 ft
8. A = 32 ft<sup>2</sup>    P = 25 ft
9. A = 28 ft<sup>2</sup>    P = 23 ft
10. A = 104 ft<sup>2</sup>    P = 42 ft

Roomiest Room is # 10

**unit 97**

1. soccer
2. soccer
3. 25.3 inches
4. about 16.74 inches
5. 11 inches
6. baseball and polo ball
7. basketball
8. about 8.45 ounces
9. 5.25 ounces
10. 21.909 ounces
11. 1. ping pong  
2. tennis  
3. polo  
4. baseball  
5. volleyball  
6. soccer  
7. basketball

**unit 98**

Answers will be approximate. Give credit for answers close to these measurements.

1. 8400 cm<sup>3</sup>
2. 9750 cm<sup>3</sup>
3. 8670 cm<sup>3</sup>
4. 9000 cm<sup>3</sup>
5. 7280 cm<sup>3</sup>
6. 15,000 cm<sup>3</sup>
7. 9375 cm<sup>3</sup>
8. 18,630 cm<sup>3</sup>
9. 10,000 cm<sup>3</sup>

# 8 has greatest volume

**unit 99**

- A
- 1 = 33°
  - 2 = 105°
  - 3 = 45°
  - 4 = 90°
  - 5 = 25°
  - 6 = 130°
  - 7 = 95°
- B
- 8 = 155°
  - 9 = 30°
  - 10 = 115°
  - 11 = 77°
- C
- 12 = 10°
  - 13 = 40°

- 14 = 88°
- 15 = 180°

**units 100-101**

1. C
2. B
3. A
4. B
5. B
6. A
7. B
8. C
9. A
10. C
11. B
12. B
13. B
14. A

**unit 102**

1. 119 lb
2. 130 lb
3. 141 lb
4. 154 lb
5. 167 lb
6. 183 lb
7. 200 lb
8. 218 lb
9. 238 lb
10. 113 kg approx.

**unit 103**

1. 40° 3F
2. 15° F
3. 48° F
4. 25° F
5. -10° F

**unit 104**

1. 9.09
2. 10
3. 384
4. 375
5. Make sure student has drawn a  $2\frac{1}{2}$  inch line.
6. 440
7. Michael Johnson

# FRACTIONS & DECIMALS

## SKILLS TEST ANSWER KEY

- |                             |   |                       |
|-----------------------------|---|-----------------------|
| 1. C                        | 34. $\frac{4}{5}$                         | 68. 0.46%             |
| 2. D                        | 35. $\frac{3}{4}$                         | 69. 1.1643            |
| 3. E                        | 36. $\frac{3}{7}$                         | 70. 3306%             |
| 4. A                        | 37. $\frac{1}{5}$                         | 71. 2.267             |
| 5. B                        | 38. $\frac{2}{3}$                         | 72. $\frac{4}{15}$    |
| 6. F                        | 39. T                                     | 73. $2\frac{1}{5}$    |
| 7. 1, 2, 3, 4, 6, 8, 12, 24 | 40. F                                     | 74. 165.59            |
| 8. 1, 13                    | 41. T                                     | 75. $\frac{3}{20}$    |
| 9. 2, 3                     | 42. F                                     | 76. $\frac{4}{13}$    |
| 10. 20                      | 43. F                                     | 77. $\frac{32}{35}$   |
| 11. 21                      | 44. F                                     | 78. 5                 |
| 12. 15                      | 45. 0.46                                  | 79. 1513.18           |
| 13. 1, 3, 5, 15             | 46. 173                                   | 80. $\frac{15}{28}$   |
| 14. 1, 2, 3, 6              | 47. 0.28                                  | 81. $19\frac{22}{25}$ |
| 15. e                       | 48. 12.0                                  | 82. b                 |
| 16. b                       | 49. 0.006                                 | 83. c                 |
| 17. c                       | 50. 0.58                                  | 84. d                 |
| 18. a                       | 51. 0.67                                  | 85. c                 |
| 19. c                       | 52. $\frac{8}{100}$                       | 86. d                 |
| 20. d                       | 53. $9\frac{1}{3}$                        | 87. a                 |
| 21. Y                       | 54. $73\frac{4}{100}$ or $73\frac{1}{25}$ | 88. b                 |
| 22. Y                       | 55. 75%                                   | 89. d                 |
| 23. N                       | 56. 88%                                   | 90. 17%               |
| 24. Y                       | 57. 75%                                   | 91. 90                |
| 25. N                       | 58. 180%                                  | 92. 28                |
| 26. N                       | 59. 20%                                   | 93. $x = 12$          |
| 27. $\frac{2}{9}$           | 60. 36%                                   | 94. $x = 5$           |
| 28. $\frac{1}{4}$           | 61. 0.147                                 | 95. $x = 27$          |
| 29. $\frac{1}{3}$           | 62. 195%                                  | 96. $x = 60$          |
| 30. $\frac{1}{2}$           | 63. 0.0056                                | 97. $x = 5$           |
| 31. $\frac{2}{3}$           | 64. 2726.1%                               | 98. $x = 14$          |
| 32. $\frac{3}{4}$           | 65. 34.90                                 | 99. $x = 6$           |
| 33. $\frac{3}{5}$           | 66. 7.95%                                 | 100. $x = 14$         |
|                             | 67. 0.0736                                |                       |

# ANSWERS\*

\* Some answers may vary slightly due to different rounding standards.

## unit 116

- $\frac{4}{14}$  or  $\frac{2}{7}$
- $\frac{6}{14}$  or  $\frac{3}{7}$
- $\frac{5}{14}$
- $\frac{3}{14}$
- $\frac{12}{14}$  or  $\frac{6}{7}$
- $\frac{14}{26}$  or  $\frac{7}{13}$
- Labradors  $\frac{16}{68}$  or  $\frac{4}{17}$   
Alaskan malamutes  $\frac{25}{68}$   
hounds  $\frac{3}{68}$   
Irish setters  $\frac{4}{68}$  or  $\frac{1}{17}$   
huskies  $\frac{9}{68}$   
non-purebred mixes  $\frac{11}{68}$

## unit 117

- $\frac{13}{20}$
- $\frac{1}{3}$
- $\frac{365}{500}$  or  $\frac{73}{100}$
- $\frac{295}{500}$  or  $\frac{59}{100}$
- $2\frac{3}{4}$
- $\frac{7}{10}$
- $\frac{98}{100}$  or  $\frac{49}{50}$
- $8\frac{1}{2}$ ,  $9\frac{1}{2}$ ,  $10\frac{1}{2}$
- $\frac{723}{800}$
- $\frac{10}{233}$
- $\frac{108}{89}$
- $\frac{3}{1}$

## unit 118

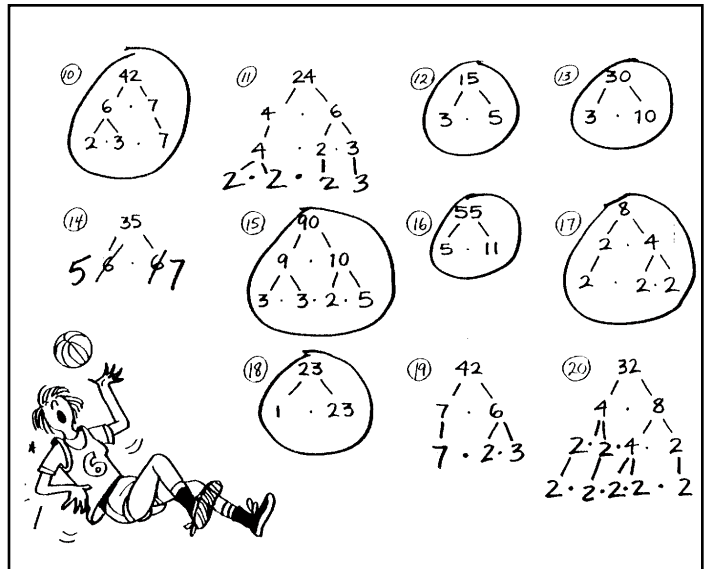
- Canada  
Jamaica  
Switzerland  
U.S.  
Russia
  - U.S.  
Russia  
Canada  
Jamaica  
Switzerland
  - U.S.  $11\frac{1}{2}$  minutes  
Jamaica 11 minutes  
Switzerland  $9\frac{5}{6}$  minutes  
Canada  $8\frac{5}{6}$  minutes  
Russia  $10\frac{3}{4}$  minutes
- Canada is the winner.

## unit 119

- |                    |                     |
|--------------------|---------------------|
| 1. $2\frac{1}{2}$  | 11. $\frac{5}{4}$   |
| 2. $2\frac{2}{3}$  | 12. $\frac{7}{4}$   |
| 3. $3\frac{1}{4}$  | 13. $\frac{9}{4}$   |
| 4. $1\frac{3}{8}$  | 14. $\frac{11}{5}$  |
| 5. 3               | 15. $\frac{14}{5}$  |
| 6. $2\frac{2}{5}$  | 16. $\frac{21}{5}$  |
| 7. $3\frac{3}{7}$  | 17. $\frac{11}{10}$ |
| 8. $1\frac{1}{2}$  | 18. $\frac{15}{10}$ |
| 9. $7\frac{1}{2}$  | 19. $\frac{31}{10}$ |
| 10. $2\frac{3}{5}$ | 20. $\frac{23}{8}$  |

## unit 120

- 12 and 6 are composite; 2 is prime
  - 24 and 6 are composite; 2 is prime
  - 13 is prime
  - 36 is composite; 2 and 3 are prime
  - 21 is composite; 3 and 7 are prime
  - 28 is composite; 2 and 7 are prime
  - 56 and 8 are composite; 7 is prime
  - 63 is composite; 3 and 7 are prime
  - 48 and 12 are composite; 2 is prime
- 10-20.



## unit 121

- |      |              |       |       |
|------|--------------|-------|-------|
| 1. G | 6. ___ blank | 11. S | 16. 8 |
| 2. O | 7. B         | 12. 3 | 17. 3 |
| 3. O | 8. U         | 13. 3 | 18. 9 |
| 4. S | 9. M         | 14. 4 | 19. 2 |
| 5. E | 10. P        | 15. 7 | 20. 5 |

## unit 122

- 8, 16, 24
- 693
- 18, 36
- BJ King, S Lenglen, M Mallory, M Seles, J Fangio, T Watson, G Grafstom, W Bockl, D Jenkins, O Nepela, K Browning
- 200
- M Navratilova, S Graf, M Connolly, M Schumacher, J Nicklaus, B Hogan, G Player, K Schafer, G Grafstrom

## unit 123

Famous saying is: "It Ain't Over Til It's Over"  
#s 7 and 21 are apostrophes; #s 3, 14, 18, 23 are blanks

## unit 124

- |                    |                       |                     |
|--------------------|-----------------------|---------------------|
| 1. $\frac{3}{5}$   | 5. $\frac{19}{10}$    | 8. $\frac{25}{110}$ |
| 2. $\frac{15}{30}$ | 6. $\frac{5}{18}$     | 9. $\frac{19}{11}$  |
| 3. $\frac{45}{50}$ | 7. a. $\frac{15}{30}$ | 10. $\frac{11}{44}$ |
| 4. $\frac{3}{10}$  | b. $\frac{12}{52}$    |                     |

**unit 125**

1.  $\frac{1}{2}$
2.  $\frac{3}{4}$
3.  $\frac{4}{5}$
4.  $\frac{1}{2}$
5.  $\frac{1}{3}$
6.  $\frac{1}{3}$
7.  $\frac{1}{3}$
8.  $\frac{4}{5}$
9.  $\frac{6}{7}$
10.  $\frac{1}{2}$
11.  $\frac{1}{4}$
12.  $\frac{3}{4}$
13.  $\frac{1}{2}$
14.  $\frac{1}{6}$
15.  $\frac{2}{5}$
16.  $\frac{2}{5}$
17.  $\frac{5}{7}$
18.  $\frac{8}{9}$
19.  $\frac{4}{11}$
20.  $\frac{4}{7}$
21.  $\frac{5}{6}$
22.  $\frac{2}{3}$
23.  $\frac{1}{4}$
24.  $\frac{5}{6}$
25.  $\frac{5}{8}$
26.  $\frac{1}{2}$
27.  $\frac{3}{8}$
28.  $\frac{1}{3}$
29.  $\frac{1}{2}$
30.  $\frac{2}{9}$
31. no— $\frac{1}{2}$
32. no— $\frac{1}{3}$
33. yes
34. no— $\frac{1}{7}$
35.  $\frac{1}{3}$
36. yes
37.  $\frac{2}{3}$
38. yes

**units 126-127**

1.  $9\frac{3}{4}$  min.
2. 3 min.
3.  $10\frac{1}{2}$  min.
4. 82 yds.
5.  $27\frac{1}{2}$  yard line; closer to Franklin's goal
6. Larry 22 yds.  
Kerry 14 yds.  
Joe 46 yds.  
Sam 31 yds.
7. yes
8.  $48\frac{1}{4}$  yds.
9.  $8\frac{1}{6}$  mins.
10. 8:30 P.M.
11. 9:10 P.M.
12.  $53\frac{2}{3}$  yds.
13.  $76\frac{1}{3}$  yds.
14. 10:00 P.M.

**unit 128**

1. individual  $12\frac{11}{16}$   
personal  $6\frac{15}{16}$   
group camping  $8\frac{15}{16}$   
group cooking  $5\frac{1}{16}$   
group food  $4\frac{11}{16}$
2. Sally  $6\frac{3}{8}$   
Mai  $5\frac{5}{8}$   
Tamika  $4\frac{7}{8}$
3.  $16\frac{7}{8}$
4.  $18\frac{11}{16}$
5. No;  $11\frac{3}{16}$  lbs overweight

**unit 129**

1. 9000 ft
2. 1 (all of your body)
3. 30 mph;  $-41^\circ$
4. 15 mph
5. 300 ft
6. 55 degrees
7. 10 hours

8.  $7\frac{1}{2}$  minutes;  $2\frac{5}{8}$  inches
9. 10 ft
10.  $8\frac{1}{4}$  hrs

**unit 130**

1. mints 5 lbs  
pizza 20  
nuts 12 lbs  
punch  $16\frac{2}{3}$  gallons  
cookies 10 lbs  
fudge  $7\frac{1}{2}$  lbs
2. hotdogs  $4\frac{4}{5}$  lbs  
hotdog buns 4 dozen  
mustard 12 ounces  
ketchup 16 ounces  
hamburger  $9\frac{3}{5}$  pounds  
hamburger buns 4 dozen  
potato chips 9 pounds  
baked beans 18 cups  
jello 2 pans  
ice cream  $4\frac{1}{2}$  lbs

3. hotdogs 16 lbs  
hotdog buns  $13\frac{1}{3}$  dozen  
mustard 40 ounces  
ketchup  $55\frac{1}{3}$  ounces  
hamburger 32 pounds  
hamburger buns  $13\frac{1}{3}$  dozen  
potato chips 30 pounds  
baked beans 60 cups  
jello  $6\frac{2}{3}$  pans  
ice cream 15 lbs

**unit 131**

Brianna's catch  
bass  $112\frac{9}{128}$  ounces  
bluegill  $49\frac{7}{8}$  ounces  
crappie  $55\frac{11}{16}$  ounces

Simon's Catch  
bowfin  $116\frac{9}{32}$  ounces  
catfish  $356\frac{89}{128}$  ounces  
walleye  $271\frac{1}{3}$  ounces

Nan's Catch  
bass  $113\frac{77}{96}$  ounces  
bowfin  $210\frac{23}{24}$  ounces  
crappie  $49\frac{23}{64}$  ounces

Jason's catch  
bluegill  $60\frac{7}{16}$  ounces  
catfish  $389\frac{3}{8}$  ounces  
walleye  $262\frac{9}{10}$  ounces

**unit 132**

Chili  
 $5\frac{1}{4}$  lb hamburger  
 $1\frac{1}{6}$  onion  
 $1\frac{3}{4}$  green peppers  
 $2\frac{5}{8}$  lb tomatoes  
 $3\frac{3}{8}$  T chili powder  
 $2\frac{1}{4}$  cans of beans

Potato Salad  
 $3\frac{1}{6}$  lb potatoes  
1 lb onions  
 $\frac{5}{6}$  lb celery  
 $4\frac{1}{9}$  oz pickle relish  
4 eggs  
 $\frac{1}{6}$  C mustard  
 $\frac{5}{6}$  T salt  
 $\frac{7}{12}$  T pepper  
 $\frac{1}{4}$  T paprika

Apple Crisp  
6 lb apples  
 $2\frac{5}{6}$  lb brown sugar  
 $4\frac{1}{6}$  C oatmeal  
 $1\frac{1}{8}$  lb butter  
 $1\frac{1}{4}$  T cinnamon  
 $\frac{7}{8}$  t. nutmeg

S'More Bars  
 $21\frac{1}{20}$  C crushed chocolate bars  
 $5\frac{1}{2}$  C crushed graham crackers  
 $\frac{1}{3}$  lb marshmallows  
 $\frac{3}{8}$  C crushed peppermint candy

**unit 133**

Cars with these numbers will crash: 3, 4, 6, 7, 12, 16, 19, 20, 21, 23, 24, and 29.

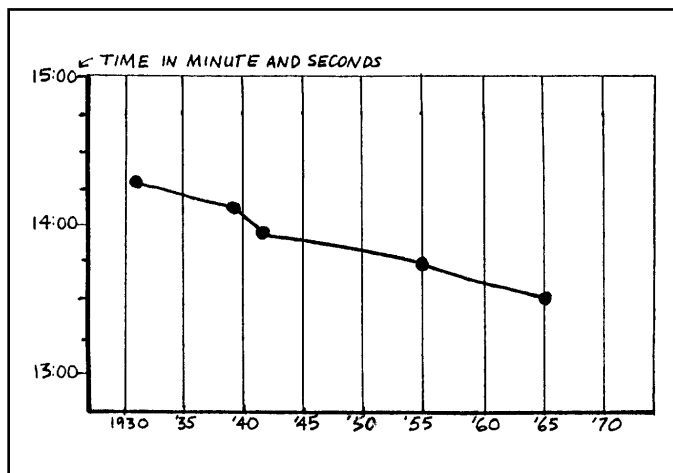
**units 134-135**

- 0.12 — twelve hundredths
- 0.42 — forty-two hundredths
- 0.4 — four tenths
- 4.4 — four and four tenths
- 2.14 — two and fourteen hundredths
- 20.056 — twenty and fifty-six thousandths
- 33.583 — thirty-three and five hundred eighty-three thousandths
- 33.05 — thirty-three and five hundredths
- 4.87 — four and eighty-seven hundredths
- 0.44 — forty-four hundredths
- 0.08 — eight hundredths
- 0.8 — eight tenths
- 0.214 — two hundred fourteen thousandths
- 0.008 — eight thousandths
- 0.487 — four hundred eighty-seven thousandths
- 0.0487 — four hundred eighty-seven ten thousandths
- 3.305 — three and three hundred five thousandths
- 0.444 — four hundred forty-four thousandths
- 33.05 — thirty-three and five hundredths
- 3.35 — three and thirty-five hundredths



**unit 136**

- July 1, 1980 — Oslo
- Aug 31, 1979 — Crystal Palace
- Aug 26, 1979 — Crystal Palace
- Sept 20, 1978 — Oslo
- June 26, 1977 — Crystal Palace
- May 28, 1977 — Belfast
- June 30, 1975 — Stockholm
- July 17, 1974 — Haringey
- July 25, 1973 — Motspur Park



**unit 137**

- |                       |                  |
|-----------------------|------------------|
| 1. a. millionths      | 4. a. tens       |
| b. ten millionths     | b. ones          |
| c. hundred millionths | 5. tenths        |
| 2. a. thousandths     | 6. ones          |
| b. hundredths         | 7. hundredths    |
| 3. a. hundredths      | 8. tenths        |
| b. tenths             | 9. hundreds      |
| c. ones               | 10. ten millions |

**unit 138**

- |            |           |
|------------|-----------|
| 1. 74.6 m  | 11. 9.7   |
| 2. 10 sec. | 12. 400.1 |
| 3. 7.6 m   | 13. 0.17  |
| 4. 8 m     | 14. 2.65  |
| 5. 2.0     | 15. 18.0  |
| 6. 7.4     | 16. 4.99  |
| 7. 5.99    | 17. 0.0   |
| 8. 9       | 18. 45.9  |
| 9. 0.1     | 19. 433   |
| 10. 41.1   | 20. 87.12 |

**unit 139**

- 1. \$587.54
- 2. \$237.54
- 3. \$462.98
- 4. \$52.66
- 5. \$120.05
- 6. \$5.59; \$4.41
- 7. \$3.50; \$1.50
- 8. \$7.35; \$12.65

**unit 140**

| <b>Melissa</b>           |                      |                    |
|--------------------------|----------------------|--------------------|
| <i>Dive</i>              | <i>Sum of Scores</i> | <i>Final Score</i> |
| back somersault          | 24.3                 | 43.74              |
| forward 1½ somersault    | 26                   | 39                 |
| inward flying somersault | 22.9                 | 43.51              |
| <b>Total Score:</b>      |                      | <b>126.25</b>      |

| <b>Tom</b>                |                      |                    |
|---------------------------|----------------------|--------------------|
| <i>Dive</i>               | <i>Sum of Scores</i> | <i>Final Score</i> |
| inward dive               | 23.6                 | 40.12              |
| forward double somersault | 25.9                 | 54.39              |
| reverse 1 ½ somersault    | 22.9                 | 45.8               |
| <b>Total Score</b>        |                      | <b>140.31</b>      |

| <b>John</b>               |  | <i>Final Score</i> |
|---------------------------|--|--------------------|
| <i>Dive</i>               |  |                    |
| back double somersault    |  | 45.2               |
| inward flying somersault  |  | 46.93              |
| forward triple somersault |  | 54.75              |
| <b>Total Score</b>        |  | <b>146.88</b>      |

| <b>Tina</b>               |  | <i>Final Score</i> |
|---------------------------|--|--------------------|
| <i>Dive</i>               |  |                    |
| reverse flying somersault |  | 42.12              |
| forward double somersault |  | 44.31              |
| inward double somersault  |  | 59.28              |
| <b>Total Score</b>        |  | <b>145.71</b>      |

Highest final score: John

**unit 141**

- 1. a. Time 0.44; Rate 29.09
- b. Time 0.43; Rate 29.77
- 2. a. Time 0.42; Distance 1.24; Rate 2.95
- b. Time 0.45; Distance 1.24; Rate 2.76
- 3. a. Time 1.11; Rate 12.07
- b. Time 1.00; Rate 13
- 4. a. Swim 0.16; cycle 4.24; run 2.65
- b. Swim 0.16; cycle 4.52; run 2.26

**unit 142**

| 1. <i>Player</i> | <i>DG</i>  | <i>PSD</i> |            |  |
|------------------|------------|------------|------------|--|
| S. Valenko       | 0.240      | 0.333      |            |  |
| T. Inqvist       | 0.375      | 0.429      |            |  |
| J. Diskov        | 0.4        | 0.281      |            |  |
| T. Beaufort      | 0.2        | 0.233      |            |  |
| N. Tyler         | 0.166      | 0.192      |            |  |
| M. Guilford      | 0.25       | 0.111      |            |  |
| 2. <i>Player</i> | <i>R/G</i> | <i>P/G</i> | <i>A/G</i> |  |
| S. Valenko       | 1.7        | 3.3        | 1.1        |  |
| T. Inqvist       | 1.55       | 3.33       | 1          |  |
| J. Diskov        | 1.1        | 3.9        | 1.2        |  |
| T. Beaufort      | 1          | 2.77       | .88        |  |

- N. Tyler 1.2 3.0 1.3  
M. Guilford 1.4 2.88 1.11  
3. Saves ..... 14.9  
Goals ..... 3.8

**unit 143**

QUOTE: "Float like a butterfly;  
Sting like a bee"

**unit 144**

- a. 44.8%  
b. 7.8%  
c. 2.9%  
d. 0.9%  
e. 6.0%  
f. 5.5%  
g. 4.3%  
h. 6.5%  
i. 4.1%  
j. 1.6%  
k. 2.8%  
l. 12.8%
- a. 0.061  
b. 0.155  
c. 0.143  
d. 0.780  
e. 0.098  
f. 0.093  
g. 0.197  
h. 0.038  
i. 0.282  
j. 0.487  
k. 0.255  
l. 0.534

**unit 145**

| 1. category | fraction/100     | decimal | percent |
|-------------|------------------|---------|---------|
| a. 50s-60s  | $\frac{8}{100}$  | 0.08    | 8%      |
| b. 70s      | $\frac{16}{100}$ | 0.16    | 16%     |
| c. 80s      | $\frac{28}{100}$ | 0.28    | 28%     |
| d. 90s      | $\frac{12}{100}$ | 0.12    | 12%     |
| e. current  | $\frac{36}{100}$ | 0.36    | 36%     |

| 2. category  | fraction/100     | decimal | percent |
|--------------|------------------|---------|---------|
| a. pop/rock  | $\frac{28}{100}$ | 0.28    | 28%     |
| b. country   | $\frac{22}{100}$ | 0.22    | 22%     |
| c. R&B/Rap   | $\frac{18}{100}$ | 0.18    | 18%     |
| d. Christian | $\frac{14}{100}$ | 0.14    | 14%     |
| e. oldies    | $\frac{12}{100}$ | 0.12    | 12%     |
| f. classical | $\frac{6}{100}$  | 0.06    | 6%      |

**unit 146**

- 38.4%
- a. 25%  
b. 37.5%
- a. 16.7%  
b. 55.6%  
c. 27.8%
- 30%
- 21.9%
- a. 13.3%  
b. 53.3%

- c. 33.3%
- a. 37.1%  
b. 15.5%  
c. 20.6%  
d. 26.8%

**unit 147**

- a. 50%  
b.  $33\frac{1}{3}\%$   
c.  $16\frac{2}{3}\%$
- a. 19%  
b. 42.9%  
c. 38.1%
- a. Tony 40.5%  
b. Jamie 28.6%  
c. Sheila 42.9%  
d. Jamie 71.4%

**unit 148**

- 70
- 23
- 8
- 17
- 17
- 61
- 73
- 12
- 20
- 56

**unit 149**

- a.  $\frac{7}{12}$   
b.  $\frac{7}{5}$
- $\frac{4}{9}$
- $\frac{3}{4}$
- $\frac{1}{8}$
- a.  $\frac{1}{2}$   
b.  $\frac{5}{2}$   
c.  $\frac{8}{5}$   
d.  $\frac{1}{2}$

**unit 150**

- a. 1055 meters per min  
b. 17.583 or  $17\frac{7}{12}$  meters per second
- 2 meters per second
- 16 meters per second
- a. 390 meters per minute  
b. 6.5 meters per second
- a. 16.67 or  $16\frac{2}{3}$  meters per second  
b. horse
- 10.70 meters per second
- 86 meters per second
- 185.87 miles per hour
- 461.54 feet per second

**unit 151**

- $\frac{7}{x} = \frac{1}{50}$ ; 350 m
- a.  $\frac{50}{24} = \frac{750}{x}$ ; 360 seconds  
b.  $\frac{40}{48} = \frac{320}{x}$ ; 384 sec  
c. a, by 24 seconds
- a. 32 seconds  
b.  $\frac{5}{x} = \frac{6}{96}$ ; 80 seconds

- a. 322 seconds  
b. 320 seconds  
c. left, by 2 seconds
- 7.5 cm
- $\frac{16}{48} = \frac{x}{42}$ ; 14th position

**units 152-153**

- a.  $\frac{x}{1000} = 11\frac{1}{3}$ ;  $x = 366.\bar{6}$  ft.  
b.  $\frac{x}{3} = \frac{2500}{1000}$ ;  $x = 7.5$  cm
- a.  $\frac{x}{2} = \frac{350}{15}$ ;  $x = 46.67$  lbs.  
b.  $\frac{x}{15} = \frac{48}{2}$ ;  $x = 360$  ft.
- $\frac{x}{1} = \frac{200}{75}$ ;  
 $x = 2.6$  carabiners (3 are necessary)
- $\frac{x}{1} = \frac{85}{15}$ ;  $x = 5.67$  camming devices
- a.  $\frac{x}{75} = \frac{9}{2}$ ;  $x = 337.5$  ft.  
b.  $\frac{x}{2} = \frac{1200}{75}$ ;  $x = 32$  cm.
- $\frac{x}{14} = \frac{1}{4}$ ;  $x = 3.5$  light sticks (4 are necessary)
- a.  $\frac{x}{1} = \frac{500,000}{1000}$ ;  $x = 50$  gallons  
b.  $\frac{3}{1,000,000} = \frac{x}{1000}$ ;  $x = 3000$  ml
- $\frac{x}{1} = \frac{160}{50}$ ;  $x = 30\frac{1}{5}$  knots (31 knots)
- $\frac{5}{7} = \frac{x}{420}$ ;  $x = 300$  minutes
- $\frac{8}{30} = \frac{30.4}{x}$ ;  $x = 114$  lbs.

**units 154**

Correct answers with sky diver:  
4, 5, 7, 8, 9, 12, 13, 14, 15, 16, 17, 22, 23  
Incorrect answers with scuba diver:  
1, 2, 3, 6, 10, 11, 18, 19, 20, 21, 24

**unit 155**

- 4.87 sec
- 24.17 sec
- 1.64 sec
- 126.30 sec or 2 min, 6.30 sec
- 4.26 sec
- 38.11 sec
- 40.24 sec
- 26.13 sec
- 9.33 sec
- 188.66 sec or 3 min, 8.66 sec

**unit 156**

- 23%
- 1.03
- 10%
- $\frac{40}{187}$
- 2.2 seconds
- 46
- 14%
- approx. 8800
- 2 titles
- 34,080,000 people

# PROBLEM SOLVING

## SKILLS TEST ANSWER KEY

1. d
2. b
3. a
4. b
5. d
6. b
7. d
8. c
9. b
10. d
11. a
12. c
13. about 5 hours
14. 823 sat in reserved seats
15. the number of adults, children, and senior citizens who attended
16. the number of pushups Carla did on Wednesday and Thursday
17. 5 hits in Game 3 and the score of 4 runs in Game 4
18. yes
19. no
20. no
21. Give 1 point each for any two of these answers: 17, 19, 37, 61, 71, 73, 91
22. Give 1 point each for any two answers which are greater than 6 hours and equal to or less than 8.33 hours.
23. Rams
24. 2
25. 20
26. 10
27. 8773.16 feet
28. no
29. sophomore class
30. junior and senior classes
31. junior class
32. 18 rides
33. 98 applied
34. 88 miles per hour (mph)
35. 56.7 miles per gallon (mpg)
36. 2 hours 18 minutes
37. 31 hours 19 minutes
38. 4:08 P.M.
39. Jen
40. Tigers
41. \$51.84
42. \$94.50
43. 19.36 pounds
44. 306 jumped (204 did not)
45. 1463 attended
46. 21,170 miles
47. 1248 bars of soap
48. Tuesday, August 27, at 11:00 A.M.
49. \$2580.00 spent in a year
50. 3800 calories per person per race

# ANSWERS

## units 168–169

---

1. a ..... Answer: 20 races
2. a, b ..... Answer: \$264
3. a, b, c ..... Answer: 21 hrs, 50 min
4. b, d ..... Answer:  $1\frac{6}{52}$  (or  $\frac{4}{13}$  in lowest terms)
5. a, b, c ..... Answer: Week 5
6. b, c ..... Answer: 3111 calories
7. a, c ..... Answer: 600 fans
8. b, c ..... Answer: 40%
9. d, e ..... Answer: 16.4 meters
10. a, b, c ..... Answer: 889, 600 ft<sup>2</sup>

## unit 170

---

1. the number of his medals  
the number of competitor's medals
2. the depth of the pool
3. the number of times she practices each dive
4. the total number of towels
5. Maria's highest dive
6. the score of the 6th judge
7. the depth of the pool
8. dates of the titles  
or the number earned at the '84 Olympics and after
9. the team average

## unit 171

---

1. • left home at 11 A.M.  
• returned at 2:30 P.M.  
• pulse was 145 bpm  
Answer: 4.57 mph
2. • left home at 9:18 A.M.  
• ran 2.6 miles to Sam's  
Answer: 5.8 miles
3. • 6 vegetarian  
• 4 plain  
• 2 pepperoni  
Answer:  $1\frac{2}{18}$  or  $\frac{2}{3}$
4. • best time for 10 k 55 minutes  
• ran .16 k per minute  
Answer: 1 hr 4 min
5. • winner was 36 years old  
• average age was 28  
Answer: 285
6. • spent \$60  
Answer: \$840

7. • went to 12 meets  
• spent \$490  
Answer: 719 miles
8. • uniforms cost \$55  
Answer: 216 pieces

## unit 172

---

- |       |        |        |
|-------|--------|--------|
| 1. 0  | 7. 22  | 13. 10 |
| 2. 39 | 8. 26  | 14. 7  |
| 3. 20 | 9. 2   | 15. 30 |
| 4. 4  | 10. 0  | 16. 40 |
| 5. 1  | 11. 22 | 17. 0  |
| 6. 2  | 12. 0  | 18. 0  |

## unit 173

---

1. multiply  
Answer: \$1800
2. multiply, add  
Answer: Tropic Jet, \$885
3. multiply, add, subtract  
Answer: \$40
4. multiply  
Answer: no
5. multiply, add  
Answer: Jamaica on Paradise Air
6. multiply, add  
Answer: Bermuda on Tropic Jet

## unit 174

---

1. \$7.12
2. Mon-Fri, 8 A.M.-5 P.M.
3. \$10.90
4. \$5.53
5. \$44.18, more
6. 15 minutes
7. girlfriend
8. \$ 19.57
9. 43 minutes
10. 21 minutes

## unit 176

---

1. Queenie
2. 13
3. Queenie
4. Sophia
5. Queenie
6. 95
7. 90-91-92
8. Sophia
9. 1992
10. Sophia
11. 1994
12. Sophia

## unit 177

---

1. Wagon Wheel Rodeo  
Batty Baseball Field
2. 1000
3. Basketville Basketball Gym
4. 12,000
5. about 6500
6. 7000
7. Dragtona Dog Race Track
8. about 12,000

## unit 178

---

1. Salt Lake City
2. about 700 miles
3. about 1500 miles
4. I-40 W to Knoxville and I-81 N to New York, about 1100 miles
5. San Antonio, Phoenix, or Oklahoma City
6. about 1200 miles
7. Boston
8. no, I-90 E to I-25, I-25 S to I-40 and I-40 E to Oklahoma City

## unit 179

---

1. 19
2. 82
3.  $1\frac{9}{82}$
4. 30.8%
5. Game 8
6. Games 5 and 8
7. 63
8. Games 1, 2, 3
9. 14
10. 112
11.  $1\frac{4}{112}$  or  $\frac{1}{8}$
12. 71
13. 89%
14. 16
15. Games 1, 5, 7
16. Game 3

## unit 180

---

1. 188.4 ft
2. 1230 ft
3. 1404 ft<sup>2</sup>
4. 1140 ft
5. 256 ft<sup>2</sup>
6. 87.9 ft
7. 153.9 ft<sup>2</sup>
8. 6672 ft<sup>2</sup>
9. 360 ft
10. 216 ft<sup>2</sup>

**unit 181**

1. 450
2. 232
3. 165
4.  $\frac{2}{19}$
5. 1 hr, 26 min (or 86 min)
6. 75 beats per min
7. 310 min
8. \$ 24.00
9. 11
10. 4 times
11. 44 meters
12. 32 back stretches
13. Friday
14. 42 minutes

**unit 182**

Answers will be approximate. Give credit for anything close to amount below.

|                  |         |
|------------------|---------|
| Sam Surf         | \$ 5.00 |
| Hot-Shot Sally   | \$ 5.50 |
| Dare Devil Darla | \$ 5.50 |
| Fearless Fred    | \$ 5.00 |
| Mad Dog Maria    | \$ 9.00 |
| Cool Cal         | \$ 4.00 |
| Jack Snack       | \$ 7.00 |
| No Way Jose      | \$ 8.50 |
| Big Wave Will    | \$ 5.00 |
| Beach Bum Bea    | \$ 5.00 |
| Speedo Sara      | \$ 8.00 |
| Never-Lose Ned   | \$ 5.50 |
| Refill Ron       | \$ 5.00 |

**unit 183**

1. Equation: a Solution: 72 times
2. Equation: c Solution:  $27\frac{1}{4}$  hrs
3. Equation: b Solution: 18 members
4. Equation: b Solution: 3.3 min.
5. Equation: a Solution: 15 medals
6. Equation: b Solution: 22

**unit 184**

Equations students write may differ slightly from these answers, but must include the same elements.

1.  $n = 17,964 - 880 - 1000$   
Answer: 16,084

2.  $n = 3(44) - 8$

Answer: 124

3.  $26 = 4n - 6$

Answer: 8

4.  $n = 42(12) - 12$

Answer: 492

5.  $n = 12.00 - 4(.75) - 3(1.00)$

$+ 6(.25) - 3.45$

Answer: \$ 4.05

6.  $n = \frac{1087 - 34}{13}$

13

Answer: 81

**unit 185**

|        |     |
|--------|-----|
| Day 1  | 32  |
| Day 2  | 6   |
| Day 3  | 7   |
| Day 4  | 33  |
| Day 5  | 15  |
| Day 6  | 64  |
| Day 7  | 30  |
| Day 8  | 9   |
| Day 9  | 12  |
| Day 10 | 111 |

**unit 186**

1. Day 37
2. 15
3. Yes
4. Day 20

**unit 187**

1. Tom-poodle-16  
Order: Tara-iguana-14, Tish-llama-15, Tom-poodle-16, Tori-tarantula-17, Tad-pig-18
2. #3 QB Tyler  
Order: #8 Guard Elijah, #3 QB Tyler, #4 Tackle Sean, #17 Full-back Ray, #2 Center Craig

**unit 188**

Answers in bold print.

1. **Kai**, Raoul, Hank, Guy, Jake, Daryl
2. **Any**a, Carla, Meghan, Fran, Patrice, Tonia
3. Gabe, Josh, **Wynn**, Andy, Bryan
4. Tami, Trina, Tracy, Trish, **Tori**

**unit 189**

1. 3 quarters, 6 dimes, 2 pennies
2. 5 quarters, 8 dimes, 1 nickel or 7 quarters and 7 nickels
3. 32 kids
4. 49 trampolinists
5. 15 steps

**unit 190**

1. 18%
2. 9%
3. 22 shots
4. 49 days
5. 58%
6. 27.5%
7. \$ 51.00
8. 15 members
9. 20%
10. 135 shots

**unit 191**

1. \$ 243.45, \$ 48.69, \$ 194.76
2. \$ 126.70, \$ 63.35, \$ 63.35
3. \$ 322.35, \$96.71, \$ 225.64
4. \$ 233.94, \$23.39, \$ 210.55
5. \$ 73.95, \$ 11.09, \$ 62.86
6. \$ 243.23

**units 192-193**

1. \$ 190.40
2. \$ 111.00
3. \$ 52.00
4. \$ 343.20
5. \$ 180.00
6. \$ 288.00
7. swim events
8. volleyball and golf
9. \$ 505.60
10. \$ 238.00
11. yes
12. no

**unit 194**

|          |          |
|----------|----------|
| 1. Sara  | \$ 12.76 |
| 2. Tara  | \$ 12.10 |
| 3. Kara  | \$ 14.22 |
| 4. Lara  | \$ 16.64 |
| 5. Dara  | \$ 15.61 |
| 6. Coach | \$ 16.34 |
| 7. Total | \$ 87.67 |

**unit 195**

|          |               |
|----------|---------------|
| Raft     | \$ 175 down   |
| Tanks    | \$ 20 a month |
| Wet Suit | \$ 12 a month |
| Radio    | \$ 572 price  |
| Camera   | \$ 9 a month  |
| Net      | \$ 140 price  |
| Fins     | \$ 47 down    |

- A. \$ 121.00 a month  
 B. month 14

**unit 196**

- 20 mpg
- 16.8 mpg
- 15.4 mpg
- 14.4 mpg
- 15.9 mpg
- 8 mpg
- 18.3 mpg
- 16.6 mpg
- 17.9 gal
- 12.2 gal
- 9.8 gal
- 17 gal
- 17.1 gal
- 22.2 gal
- 16.5 gal
- 15.8 gal

**unit 197**

- 12 mph
- 10.3 mph
- 7.9 mph
- 11.9 mph
- 6.2 mph
- 16.2 mph
- 4.9 mph
- 10 mph
- 9.3 mph
- 8.8 mph
- 3.6 hrs
- .7 hrs
- .75 hrs
- 1.2 hrs
- 2.4 hrs

Fastest: Watch-out Whirlpool  
 Slowest: Lazy Current

**unit 198**

- 27 hours
- 23.31 miles
- .05 hours
- 4 minutes
- 18 miles
- 85 mph
- 25 mph
- 190 mph

**unit 199**

- 48
- \$ 2250
- 392
- 105 minutes (or 1 hr, 45 min)
- 98
- 264
- 7
- 2625

**unit 200**

- 24 hours
- 8:30 A.M. on Tuesday
- 4:15 P.M. on Thursday
- 8:00 A.M. on Monday
- 12:00 A.M. on Friday
- 10:04 A.M.
- 12:09 P.M.
- 2:28 P.M.
- 7:35 P.M. on Sunday
- 3:00 P.M. on Wednesday

**unit 201**

Answers will vary. Students are to give 2 answers for each problem. Give credit to students for any workable solution.

**unit 202**

Answers will vary. Students are to give 2 answers for each problem. Give credit to students for any workable solution.

**unit 203**

- a
- c
- b
- a
- c
- c
- a
- b

**unit 204**

Students should show that they have chosen and used a specific problem-solving strategy for each of these.

- 5.5 hours
  - about 3-4 P.M.
  - ages 12 and 21
- (other possible solutions)

**unit 205**

- yes
- no, There are 1352 bones in **2 feet** each of 26 persons
- no, 204 pounds
- yes
- no, 111 pounds
- yes
- no,  $\frac{7}{8}$
- no, 1400 feet

**unit 206**

Students will be explaining why they do not find answers reasonable. Accept any sensible explanation for their decisions.

- no
- no
- yes
- no
- yes
- no
- no
- no

# GRAPHING, STATISTICS, & PROBABILITY

## SKILLS TEST ANSWER KEY

- |   |   |  |
|---|---|--|
| 1. e  | 38. July  | 73. $\frac{1}{4}$                      |
| 2. b  | 39. The Terminator                              | 74. $\frac{2}{4}$ or $\frac{1}{2}$     |
| 3. a  | 40. snowboarding                                | 75. $\frac{3}{6}$ or $\frac{1}{2}$     |
| 4. h  | 41. ice climbing and snowboarding               | 76. $\frac{4}{6}$ or $\frac{2}{3}$     |
| 5. d  | 42. snowmobile racing                           | 77. $\frac{5}{12}$                     |
| 6. f  | 43. freestyle skiing                            | 78. $\frac{1}{12}$                     |
| 7. j  | 44. no  | 79. $\frac{3}{12}$ or $\frac{1}{4}$    |
| 8. i  | 45. 68%   | 80. $\frac{3}{12}$ or $\frac{1}{4}$    |
| 9. g  | 46. snowmobile and ice climb                    | 81. $\frac{6}{36}$                     |
| 10. c   | 47. 74%   | 82. $\frac{6}{36}$ or $\frac{1}{6}$    |
| 11. jet skiing  | 48. g   | 83. $\frac{5}{36}$                     |
| 12. 4   | 49. a   | 84. 25                                 |
| 13. wakeboarding  | 50. d   | 85. $\frac{2}{25}$                     |
| 14. barefoot skiing   | 51. c   | 86. $\frac{16}{25}$                    |
| 15. all 3 (bathtub races, backward unicycle races, lawnmower races) | 52. b   | 87. $\frac{5}{25}$ or $\frac{1}{5}$    |
| 16. bathtub races   | 53. e   | 88. $\frac{3}{42}$ or $\frac{1}{14}$   |
| 17. backward unicycle races   | 54. h   | 89. $\frac{5}{18}$                     |
| 18. yes   | 55. f   | 90. 20                                 |
| 19. 1996  | 56. i   | 91. 500                                |
| 20. backward unicycle races   | 57. 1   | 92. 400                                |
| 21. 8   | 58. $\frac{1}{6}$                               | 93. 1500                               |
| 22. 15  | 59. $\frac{1}{2}$                               | 94. 600                                |
| 23. 15  | 60. 0   | 95. a. $\frac{2}{1}$                   |
| 24. T. J.   | 61. $\frac{2}{12}$ or $\frac{1}{6}$             | b. $\frac{1}{2}$                       |
| 25. 8   | 62. 2   | c. $\frac{2}{3}$                       |
| 26. 7.2   | 63. 6   | 96. a. $\frac{2}{7}$                   |
| 27. 10  | 64. 7   | b. $\frac{5}{2}$                       |
| 28. 0–16  | 65. 12  | c. $\frac{2}{5}$                       |
| 29. 8.8   | 66. 4   | 97. 6                                  |
| 30. pancake toss  | 67. 6   | 98. ABC, ACB,<br>BCA, BAC,<br>CAB, CBA |
| 31. grape toss  | 68. 3   | 99. 120                                |
| 32. egg toss, and boot toss   | 69. 5   | 100. 3; A & B, A & C, B & C            |
| 33. grape toss  | 70. 8, 9  |  |
| 34. spear toss  | 71. W10, W20, W50, W100,<br>L10, L20, L50, L100 |  |
| 35. Texas Torture and Tsunami                                       | 72. $\frac{1}{2}$                               |  |
| 36. Texas Torture   |   |  |
| 37. Terminator  |   |  |

# ANSWERS

## unit 218

Frequency Table Data:

|        |        |
|--------|--------|
| JTSK-7 | STLG-1 |
| WSRF-4 | HGGD-4 |
| AILS-6 | SKYS-4 |
| BFJP-2 | WKBD-5 |
| BCYS-2 | SPCL-4 |
| SKBD-5 | BNGY-7 |

## unit 219

Frequency Table Data:

|       |      |      |
|-------|------|------|
| AK-9  | ID-6 | NM-2 |
| AL-2  | LA-1 | NY-1 |
| AR-1  | ME-4 | OR-8 |
| AZ-1  | MI-2 | SC-2 |
| CA-17 | MN-1 | TX-3 |
| CO-15 | MO-1 | WA-9 |
| FL-5  | MT-8 | UT-4 |
| GA-1  | NC-1 | VT-3 |
| HI-20 | NJ-1 |      |

## unit 220

Some answers may be approximate. Give student credit if the answer is close for #8 and #9.

- 40-45
- 60-65
- 35-40
- 30-35
- 20-25
- 10-15
- 50
- about 12
- about 75
- 35-40 or 10-15
- 60-65, 65-70, over 70
- 45-50 and 55-60
- 40-50
- 35-40
- 35-40
- yes

## unit 221

Check graph to see that the heights of bars match these tallies from the tally sheet:

|                    |    |
|--------------------|----|
| 0-500 mi . . .     | 58 |
| 500-1000 mi . . .  | 73 |
| 1000-1500 mi . . . | 55 |
| 1500-2000 mi . . . | 61 |
| 2000-2500 mi . . . | 38 |
| over 2500 mi . . . | 20 |

## unit 222

- spear
- grape
- spear
- 13 ft, 5 in
- 638 ft, 9½ in

- 19 ft
- 846 mi, 1375 yd
- spear
- motorcycle jump
- 34,872 ft

## unit 223

- |        |                         |
|--------|-------------------------|
| 1. 47  | 13. 95                  |
| 2. 74  | 14. 89                  |
| 3. 11  | 15. 62                  |
| 4. 64  | 16. Rapids Racers       |
| 5. 27  | 17. River Racers        |
| 6. 23  | 18. White Water Wizards |
| 7. 48  | 19. Unsinkables         |
| 8. 65  | 20. Tuesday             |
| 9. 13  | 21. Friday              |
| 10. 15 | 22. White Water Wizards |
| 11. 25 |                         |
| 12. 12 |                         |

## unit 224

- 3-21
- 11
- 2-7; 4
- 90 lb-140 lb; 109
- 0-16; 8¼
- 15-32; 19

## unit 225

Complete the chart with these totals.

Median, across . . . 15, 15, 15, 12, 14

Mode, across . . . 11, 27, 21, 20, 9

- 15
- 36
- 12
- circle 101 lb, squares around 77 lb and 77 lb

## unit 226

- |              |                    |
|--------------|--------------------|
| 1. August    | 6. 450 m           |
| 2. 460 m     | 7. April           |
| 3. September | 8. October and May |
| 4. 220 m     | 9. 60 m            |
| 5. February  |                    |

## unit 227

Answers for 1, 2, 9 may not be exactly as given below. Give credit if the number is close.

- |         |          |                |
|---------|----------|----------------|
| 1. 3600 | 5. Sue   | 9. 3500        |
| 2. 6200 | 6. Shirl | 10. Shirl      |
| 3. Sly  | 7. 5000  | 11. Sara       |
| 4. 4    | 8. Sam   | 12. Sam or Sly |

## unit 228

Check student graph to see that the data from the table has been accurately plotted and line has been drawn in order from dive 1-12.

## unit 229

Check student graph to see that the data from the table has been accurately transferred to the graph.

## unit 230

Check student graph to see that the data from the table has been accurately transferred to the graph.

## unit 231

- |         |                  |
|---------|------------------|
| 1. 6    | 9. no            |
| 2. 10   | 10. yes          |
| 3. 6    | 11. 4            |
| 4. 11   | 12. 11 and 12 ft |
| 5. 5 ft | 13. 8            |
| 6. 1 ft | 14. 14           |
| 7. 7 ft | 15. a, d, f      |
| 8. no   |                  |

## unit 232

- |             |              |
|-------------|--------------|
| 1. Nicole   | 7. yes       |
| 2. Jennifer | 8. above     |
| 3. Brandy   | 9. 8 and 9   |
| 4. Nicole   | 10. 5 and 6  |
| 5. Amanda   | 11. Jennifer |
| 6. Jennifer | 12. Nicole   |

## unit 233

Check student graph to see that the data from the table has been accurately plotted and that each line has been drawn in proper color and in correct sequential order of the years.

## unit 234

- 5½ or 6 min
- Midnight Kings
- Sleepwalkers
- 11
- 1 min
- 3 min or 3½ min or 4 min
- 1 min
- 32
- Snooze Crew and Sleepwalkers
- Answers may vary. The teams with more experience have faster times.

## unit 235

Check student graph to see that the data from the table has been accurately transferred to the graph. Make sure alternate bars are green and yellow as instructed.

## unit 236

- 230,200 mi
- bicycle



3. 4900 mi
4. 847 mi
5. Answers will vary
6. Answers will vary
7. Answers will vary
8. Answers will vary
9. 2308 mi
10. Answers will vary

**unit 237**

- |       |               |
|-------|---------------|
| 1. 6  | 7. yes        |
| 2. 13 | 8. 22         |
| 3. 4  | 9. half cab   |
| 4. 19 | 10. slob heli |
| 5. 27 | 11. yes       |
| 6. 7  | 12. no        |

**unit 238**

1. 45 years (answer is approximate)
2. 40
3. Bob, Boe, Brad
4. no
5. 25
6. 11 (answer is approximate)
7. x = Brett; y = Bev
8. x = Benjy; y = Brad
9. a = Brad; b = Bob
10. 30

**unit 239**

1. 678 ft
2. 27 ft
3. Flo or Frank or Fred
4. Phoebe
5. Phillipe
6. Frank
7. Phyllis
8. 0
9. 195 ft
10. Phyllis
11. 6
12. 91 ft
13. 920 ft
14. 10

**units 240–241**

1. 139 hours
2. MA
3. 39 hours
4. 113 hours
5. 103 hours
6. 1055 hours
7. CA
8. Black Widow
9. Swamp Fox
10. 16 hours
11. 67 hours
12. Maria; 2 hours
13. Big Bad Wolf

14. Brianna
15. Texas Twister, Tidal Wave, Twisted Sisters; 156 hours
16. Outlaw

**unit 242**

- |                    |                     |
|--------------------|---------------------|
| 1. 152             | 8. R. J.s           |
| 2. P. J.           | 9. P. J.            |
| 3. 17.25           | 10. B. J. and R. J. |
| 4. yes             | 11. B. J.           |
| 5. R. J. and J. J. | 12. R. J.           |
| 6. 13              | 13. J. J.s          |
| 7. J. J.           | 14. 17              |

**unit 243**

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. $\frac{1}{4}$                  | 13. $\frac{1}{50}$                  |
| 2. $\frac{1}{4}$                  | 14. 1                               |
| 3. $\frac{2}{4}$ or $\frac{1}{2}$ | 15. 2                               |
| 4. $\frac{2}{4}$ or $\frac{1}{2}$ | 16. 6                               |
| 5. 1                              | 17. $\frac{3}{12}$ or $\frac{1}{4}$ |
| 6. $\frac{1}{2}$                  | 18. $\frac{2}{7}$                   |
| 7. 1                              | 19. 5                               |
| 8. 0                              | 20. E                               |
| 9. 0                              | 21. C                               |
| 10. $\frac{1}{6}$                 | 22. A and B                         |
| 11. 1                             |                                     |
| 12. Answers will vary             |                                     |

**unit 244**

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| 1. $\frac{1}{6}$                  | 10. $\frac{2}{6}$ or $\frac{1}{3}$ |
| 2. $\frac{2}{6}$ or $\frac{1}{3}$ | 11. $\frac{2}{6}$ or $\frac{1}{3}$ |
| 3. $\frac{1}{6}$                  | 12. $\frac{4}{6}$ or $\frac{2}{3}$ |
| 4. $\frac{3}{6}$ or $\frac{1}{2}$ | 13. $\frac{2}{6}$ or $\frac{1}{3}$ |
| 5. $\frac{4}{6}$ or $\frac{2}{3}$ | 14. $\frac{3}{6}$ or $\frac{1}{2}$ |
| 6. $\frac{2}{6}$ or $\frac{1}{3}$ | 15. $\frac{2}{6}$ or $\frac{1}{3}$ |
| 7. $\frac{1}{6}$                  | 16. $\frac{5}{6}$                  |
| 8. $\frac{3}{6}$ or $\frac{1}{2}$ | 17. $\frac{1}{6}$                  |
| 9. $\frac{3}{6}$ or $\frac{1}{2}$ | 18. $\frac{2}{6}$ or $\frac{1}{3}$ |

**unit 245**

- Finish the graph:  
 Totals across bottom: AR = 50, AC = 80, M = 70, Total Tricks = 200  
 Totals down right: Japan = 50, Canada = 90, USA = 60, Total Skiers = 200
1.  $\frac{90}{200}$  or  $\frac{45}{100}$  or  $\frac{9}{20}$
  2.  $\frac{140}{200}$  or  $\frac{7}{10}$
  3.  $\frac{50}{200}$  or  $\frac{1}{4}$
  4.  $\frac{30}{200}$  or  $\frac{3}{20}$
  5.  $\frac{20}{200}$  or  $\frac{1}{10}$
  6.  $\frac{120}{200}$  or  $\frac{3}{5}$
  7.  $\frac{150}{200}$  or  $\frac{3}{4}$
  8.  $\frac{130}{200}$  or  $\frac{13}{20}$
  9.  $\frac{20}{200}$  or  $\frac{1}{10}$
  10.  $\frac{50}{200}$  or  $\frac{1}{4}$
  11.  $\frac{20}{60}$  or  $\frac{1}{3}$
  12.  $\frac{40}{50}$  or  $\frac{4}{5}$

13.  $\frac{60}{90}$  or  $\frac{2}{3}$
14.  $\frac{10}{80}$  or  $\frac{1}{8}$
15.  $\frac{40}{50}$  or  $\frac{4}{5}$
16.  $\frac{40}{60}$  or  $\frac{4}{6}$  or  $\frac{2}{3}$
17.  $\frac{30}{70}$  or  $\frac{3}{7}$
18.  $\frac{30}{50}$  or  $\frac{3}{5}$
19.  $\frac{50}{80}$  or  $\frac{5}{8}$
20.  $\frac{10}{50}$  or  $\frac{1}{5}$

**unit 246**

Outcomes for 2 spins . . . not necessarily in this order:  
 DD, DR, DN, RR, RD, RN, NN, ND, NR

Outcomes for 4 flips, not necessarily in this order:  
 HHHH, HHHT, HHTT, HTTT, HTHH, HTTH, HHTH, HTHT, TTTT, TTTH, TTHH, THHH, THHT, THTH, TTHT, THTT

1.  $\frac{5}{9}$
2.  $\frac{4}{9}$
3.  $\frac{1}{9}$
4.  $\frac{2}{9}$
5.  $\frac{3}{9}$  or  $\frac{1}{3}$
6.  $\frac{6}{9}$  or  $\frac{2}{3}$
7.  $\frac{8}{16}$  or  $\frac{1}{2}$
8.  $\frac{6}{16}$  or  $\frac{3}{8}$
9.  $\frac{4}{16}$  or  $\frac{1}{4}$
10.  $\frac{2}{16}$  or  $\frac{1}{8}$
11.  $\frac{1}{16}$
12.  $\frac{2}{16}$  or  $\frac{1}{8}$

**unit 247**

Outcomes for Rolling 2 dice, not necessarily in this orders;

1. 1.1, 1.2, 1.3, 1.4, 1.5, 1.6
  2. 2.1, 2.2, 2.3, 2.4, 2.5, 2.6
  3. 3.1, 3.2, 3.3, 3.4, 3.5, 3.6
  4. 4.1, 4.2, 4.3, 4.4, 4.5, 4.6
  5. 5.1, 5.2, 5.3, 5.4, 5.5, 5.6
  6. 6.1, 6.2, 6.3, 6.4, 6.5, 6.6
1.  $\frac{1}{36}$
  2.  $\frac{6}{36}$  or  $\frac{1}{6}$
  3.  $\frac{9}{36}$  or  $\frac{1}{4}$
  4.  $\frac{16}{36}$  or  $\frac{4}{9}$
  5.  $\frac{9}{36}$  or  $\frac{1}{4}$
  6.  $\frac{5}{36}$
  7.  $\frac{3}{36}$  or  $\frac{1}{12}$
  8.  $\frac{5}{36}$
  9.  $\frac{18}{36}$  or  $\frac{1}{2}$
  10.  $\frac{3}{36}$  or  $\frac{1}{12}$
  11.  $\frac{6}{36}$  or  $\frac{1}{6}$
  12.  $\frac{4}{36}$  or  $\frac{1}{9}$
  13.  $\frac{4}{36}$  or  $\frac{1}{9}$
  14.  $\frac{10}{36}$  or  $\frac{5}{18}$
  15.  $\frac{2}{36}$  or  $\frac{1}{18}$
  16.  $\frac{2}{36}$  or  $\frac{1}{18}$

**unit 248**

Outcomes:

GG, GO, GP, OG, OO, OP, PG, PO, PP

1. 9
2.  $\frac{1}{9}$
3.  $\frac{8}{9}$
4.  $\frac{1}{9}$
5.  $\frac{2}{9}$
6.  $\frac{2}{9}$

**unit 249**

Outcomes:

- 1, 1; 1, 2; 1, 3; 1, 4; 1, 5;
- 2, 1; 2, 2; 2, 3; 2, 4; 2, 5;
- 3, 1; 3, 2; 3, 3; 3, 4; 3, 5;
- 4, 1; 4, 2; 4, 3; 4, 4; 4, 5;
- 5, 1; 5, 2; 5, 3; 5, 4; 5, 5
1.  $\frac{3}{25}$  (2, 5; 5, 2; or 4, 4)
2.  $\frac{1}{25}$  (1, 1)
3.  $\frac{1}{25}$  (5, 5)
4.  $\frac{2}{25}$  (2, 3 or 3, 2)
5.  $\frac{2}{25}$  (5, 4 or 4, 5)
6.  $\frac{2}{25}$  (3, 4 or 4, 3)
7.  $\frac{2}{25}$  (3, 5 or 5, 3)
8. 0
9.  $\frac{20}{25}$  (every outcome except 3, 5 or 5, 3; or 4, 4 or 5, 5)
10.  $\frac{1}{25}$  (5, 5)
11.  $\frac{3}{25}$  (2, 2 or 1, 5 or 5, 1)
12. 0

**unit 250**

1. 2
2. 3
3. 3
4.  $2 \times 3 \times 3 = 18$
5.  $\frac{1}{18}$
6. 36
7. 72
8. 48

**unit 251**

Chart: Balloon Permutations . . . not necessarily in this order on chart:

CH, C, M  
 CH, M, C  
 C, CH, M  
 C, M, CH  
 M, CH, C  
 M, C, CH

Example: 6; 6

1. 120
2. 24
3. 6
4. 40,320
5. 720
6. 5040
7. 3,628,800
8. 24

**unit 252**

Example: 3

- A. 5 Combinations do not have to be listed in this exact order:  
 TPDM, TDMC, TPDC, TPMC, PDMC
- B. 15 Combinations do not have to be listed in this exact order:  
 BC, BD, BE, BF, BG,  
 CD, CE, CF, CG,  
 DE, DF, DG,  
 EF, EG, FG

**unit 253**

Outcomes not necessarily listed in this order: H1, H2, H3, H4, H5, H6,  
 T1, T2, T3, T4, T5, T6

1.  $\frac{3}{12}$  or  $\frac{1}{4}$
2.  $\frac{3}{12}$  or  $\frac{1}{4}$
3.  $\frac{1}{12}$
4.  $\frac{4}{12}$  or  $\frac{1}{3}$
5.  $\frac{2}{12}$  or  $\frac{1}{6}$
6.  $\frac{4}{12}$  or  $\frac{1}{3}$
7.  $\frac{3}{12}$  or  $\frac{1}{4}$
8.  $\frac{5}{12}$
9.  $\frac{2}{12}$  or  $\frac{1}{6}$
10.  $\frac{2}{12}$  or  $\frac{1}{6}$
11.  $\frac{2}{12}$  or  $\frac{1}{6}$
12.  $\frac{3}{12}$  or  $\frac{1}{4}$

**unit 254**

Outcomes not necessarily listed in this order: 2R, 2F,

3R, 3F,  
 4R, 4F,  
 5R, 5F,  
 6R, 6F,  
 7R, 7F

1.  $\frac{3}{6} \times \frac{1}{2} = \frac{3}{12}$  or  $\frac{1}{4}$
2.  $\frac{2}{6} \times \frac{1}{2} = \frac{2}{12}$  or  $\frac{1}{6}$

Table:

Answers across:

3.  $\frac{1}{2}; \frac{1}{2}; \frac{1}{4}$
4.  $\frac{1}{6}; \frac{1}{2}; \frac{1}{12}$
5.  $\frac{1}{2}; \frac{3}{6}$  or  $\frac{1}{2}; \frac{1}{4}$  or  $\frac{3}{12}$
6.  $\frac{1}{6}; \frac{1}{6}; \frac{1}{36}$

**unit 255**

Table, across

1.  $\frac{2}{12}$  or  $\frac{1}{6}; \frac{3}{11}; \frac{1}{22}$
2.  $\frac{10}{40}$  or  $\frac{1}{4}; \frac{10}{39}; \frac{5}{78}$
3.  $\frac{5}{20}$  or  $\frac{1}{4}; \frac{5}{19}; \frac{5}{76}$
4.  $\frac{2}{12}$  or  $\frac{1}{6}; \frac{2}{11}; \frac{1}{33}$
5.  $\frac{4}{100}$  or  $\frac{1}{25}; \frac{32}{33}; \frac{32}{825}$

**unit 256**

- |                                      |                                       |
|--------------------------------------|---------------------------------------|
| 1. a. $\frac{3}{4}$                  | 5. a. $\frac{7}{3}$                   |
| b. $\frac{4}{3}$                     | b. $\frac{3}{7}$                      |
| c. $\frac{3}{7}$                     | c. $\frac{3}{10}$                     |
| 2. a. $\frac{1}{3}$                  | 6. a. $\frac{8}{9}$                   |
| b. $\frac{3}{1}$                     | b. $\frac{8}{1}$                      |
| c. $\frac{3}{4}$                     | c. $\frac{1}{8}$                      |
| 3. a. $\frac{5}{3}$                  | 7. a. $\frac{1}{10}$                  |
| b. $\frac{3}{5}$                     | b. $\frac{10}{1}$                     |
| c. $\frac{5}{8}$                     | c. $\frac{1}{11}$                     |
| 4. a. $\frac{2}{4}$ or $\frac{1}{2}$ | 8. a. $\frac{3}{12}$ or $\frac{1}{4}$ |
| b. $\frac{4}{2}$                     | b. $\frac{9}{3}$ or $\frac{3}{1}$     |
| c. $\frac{4}{6}$ or $\frac{2}{3}$    | c. $\frac{3}{9}$ or $\frac{1}{3}$     |

**unit 257**

1.  $\frac{6}{20}$  or  $\frac{3}{10}$
2.  $\frac{16}{20}$  or  $\frac{4}{5}$
3.  $\frac{1}{19}$
4.  $\frac{7}{13}$
5.  $\frac{14}{6}$  or  $\frac{7}{3}$
6.  $\frac{6}{19}$
7.  $\frac{2}{19}$
8.  $\frac{3}{50}$
9.  $\frac{7}{200}$
10.  $\frac{7}{400}$
11.  $\frac{49}{400}$
12.  $\frac{4}{400}$  or  $\frac{1}{100}$
13. a.  $\frac{112}{400}$  or  $\frac{7}{25}$
- b.  $\frac{168}{400}$  or  $\frac{21}{50}$
- c. 0
- d.  $\frac{48}{400}$  or  $\frac{12}{100}$  or  $\frac{3}{25}$

**unit 258**

Chart:

Totals across: 6, 4, 14

1.  $\frac{6}{24}$  or  $\frac{1}{4}$
2.  $\frac{4}{24}$  or  $\frac{1}{6}$
3.  $\frac{14}{24}$  or  $\frac{7}{12}$
4.  $\frac{20}{24}$  or  $\frac{5}{6}$
5.  $\frac{18}{24}$  or  $\frac{6}{8}$  or  $\frac{3}{4}$
6.  $\frac{20}{24}$  or  $\frac{5}{6}$
7. 300
8. 200
9. 700
10. 180
11. a. 720
- b. 900
- c. 300
- d. 480

# Pre-Algebra

## SKILLS TEST ANSWER KEY

1. solution
2. origin
3. expression
4. absolute value
5. terms
6. translation
7. reflection
8. variable
9. linear equation
10. integers
11. 7
12. 34
13.  $-9, -7, -3, 0, 8, 9$
14.  $-20, -10, -5, 5, 10, 20$
15.  $-23$
16.  $-17$
17. 24
18.  $-50$
19. 9
20. 1
21. 0
22.  $-4^\circ$
23.  $30^\circ$
24. a
25. c
26. b
27.  $2(t + s + 4w)$
28.  $p - 12s - 2c - b$
29. T
30. T
31. F
32. T
33. 2
34. 4
35. 13
36.  $3k + 18$
37.  $-3z + 6x$
38.  $2g + 18$
39.  $9y + q$
40.  $-25 - 9p$
41. c
42. a
43. b
44. b
45.  $p + 200 - 200 = -100 - 200$
46.  $-50 + 50 + p = 13 + 50$
47.  $-5 - 9 = t + 9 - 9$
48.  $t = 2w - 1$
49.  $38 + x = 50$
50.  $25 + 3x = 119$
51. no
52. no
53. no
54. 100
55. 250
56. I
57. A
58. C
59. D
60. Z
61.  $-25$
62.  $-3$
63.  $-128$
64. 9
65. 8
66. 4
67. b
68.  $> -1$
69.  $\geq -2$
70.  $< 2$
71. yes
72. yes
73. no
74. no
75. no
76. yes
77. no
78. yes
79. yes
80. c
81. b
82. turn
83. flip
84. slide
85.  $(2, -1)$
86.  $(5, -3)$
87.  $(4, 3)$
88.  $(5, 0)$
89. Check student drawings to see that they follow the sequence.
90. Check student drawings to see that they follow the sequence.

# ANSWERS

## unit 270

- |         |         |
|---------|---------|
| 1. a. P | 5. a. P |
| b. 3    | b. 8    |
| c. -3   | c. -8   |
| 2. a. N | 6. a. N |
| b. 2    | b. 7    |
| c. 2    | c. 7    |
| 3. a. P | 7. a. N |
| b. 12   | b. 4    |
| c. -12  | c. 4    |
| 4. a. P | 8. a. N |
| b. 5    | b. 6    |
| c. -5   | c. 6    |

## unit 271

- |      |       |       |
|------|-------|-------|
| 1. 4 | 6. 1  | 11. > |
| 2. 3 | 7. >  | 12. < |
| 3. 2 | 8. <  | 13. > |
| 4. 6 | 9. >  | 14. > |
| 5. 6 | 10. > |       |

15. -7, -6, -4, -2, 3, 5, 8, 12  
 16. -20, -7, -1, 0, 3, 4, 6, 20  
 17. -16, -8, -4, -3, 3, 5, 10  
 18. -8, -4, -2, 2, 4, 6, 8  
 19. -12, -7, 0, 2, 6, 7, 8  
 20. -8, -6, 0, 2, 5, 9, 11

## unit 272

- |        |         |
|--------|---------|
| 1. 4   | 10. -5  |
| 2. -15 | 11. -29 |
| 3. -99 | 12. 6   |
| 4. 4   | 13. -22 |
| 5. -4  | 14. -8  |
| 6. 1   | 15. 3   |
| 7. 0   | 16. -59 |
| 8. -75 | 17. 42  |
| 9. -19 | 18. -21 |

## unit 273

Answer to equation at top of page: 6 miles

- |        |               |
|--------|---------------|
| 1. -10 | 12. -6        |
| 2. 10  | 13. 3         |
| 3. -10 | 14. -10       |
| 4. 10  | 15. 64        |
| 5. -7  | 16. -11       |
| 6. 7   | 17. 19        |
| 7. -7  | 18. 4         |
| 8. 7   | 19. -4        |
| 9. 0   | 20. -29       |
| 10. -4 | 21. 5.8 miles |
| 11. 23 |               |

## unit 274

### Chart

- $10^\circ - 15^\circ$
- $37^\circ 32' 22'' 12^\circ - 3^\circ$
- $55^\circ 50' 40'' 30^\circ 15'$
- $11^\circ 6' - 4^\circ - 14^\circ - 29^\circ$

- $6^\circ 1^\circ - 9^\circ - 19^\circ - 34^\circ$
- $10^\circ 5^\circ 0^\circ - 10^\circ - 35^\circ$

Bottom

- |            |                |
|------------|----------------|
| 7. -70     | 12. -2500      |
| 8. -42     | 13. 1500       |
| 9. 60      | 14. -200,000   |
| 10. -56    | 15. -320       |
| 11. 10,000 | 16. 630 or 700 |

## unit 275

- |                 |          |
|-----------------|----------|
| 1. Mar          | 8. Oct   |
| 2. Apr          | 9. -10   |
| 3. Nov          | 10. 13   |
| 4. Oct          | 11. -100 |
| 5. Aug          | 12. 20   |
| 6. Nov          | 13. -4   |
| 7. Feb and June | 14. -100 |

## unit 276

Equations may vary slightly, depending on what arrangement of terms the student chooses. Check to see that equations accurately reflect the problems, and to see that student has used integers in the equation.

- $-2 + 2 + -3 = -3$

Answer: Shoes, Boots

- $-3 + 10 = 7$

Answer: Videos, Slides

- $2x - 2 = -4$

Answer: Repair Shop

- $-.4 + 8 + -1 = 3$

Answer: Clothing

- $2 - -4 = 6$

Answer: 6

- $-1 + 9 = 8$

Answer: Climbing Gear

- $-3 + 4 + -1 = 0$  or  $-3 + -1 + 4 = 0$

Answer: Sleeping Bags

- $3 + -3 + 8 + -2 = 6$

Answer: Books & Maps

## unit 277

- Toni
- Mike
- Basha
- T
- blank or F
- blank or F
- T
- 12. answers will vary

Check phrases to make sure they give an accurate statement of a relationship between the two numbers.

## unit 278

Top questions:

- yes  
 $t < 2s$   
 1.  $3w + 2p$

- $4f + s$
- $2c + 10$
- $b - 3$
- $f < 2t$
- $3(p + b)$
- $5w + 2$
- $c + 2w + f < 100$

## unit 279

Expressions may vary slightly, depending on what arrangement of terms the student chooses. Check to see that expressions accurately reflect the statements, and to see that student has used integers in each expression.

- $m + 3$
- $15r - 7j$
- $4p - 2n$
- $12g - 4g$
- $8c - 5$
- $2(2b + 6j)$
- $3(2s - 5f)$
- $10h + s + 2p$
- $2a < 3p$
- $5(b + a)$
- $\frac{1}{2}r + \frac{1}{4}g$
- $10(bf)$

## unit 280

- |      |       |
|------|-------|
| 1. 2 | 8. U  |
| 2. 2 | 9. 2  |
| 3. 2 | 10. 4 |
| 4. 4 | 11. 4 |
| 5. L | 12. 1 |
| 6. U | 13. 5 |
| 7. U |       |

- $7z, 18m, \frac{1}{2}b$   
 coefficient of  $z$  is 7  
 coefficient of  $m$  is 18  
 coefficient of  $b$  is  $\frac{1}{2}$

## unit 281

Answers may vary somewhat, depending upon the order in which student chooses to place the terms of the expression.

- |                       |                 |
|-----------------------|-----------------|
| 1. $8a$               | 11. $2y + 2x$   |
| 2. $2x$               | 12. $27g - 3s$  |
| 3. $8k$               | 13. $11m + 100$ |
| 4. $19\frac{1}{4}c$   | 14. $2w + 12$   |
| 5. $11y - 5$          | 15. $3b + 10$   |
| 6. $\frac{1}{4}x + 2$ | 16. $7a + 6$    |
| 7. $7t + 14$          | 17. $16n + 10$  |
| 8. $3.2k + 5$         | 18. $6x + 3y$   |
| 9. $z + 6x$           | 19. $9p$        |
| 10. $3n + 4p$         | 20. $3s - 2t$   |

## unit 282

Answers may vary somewhat, depending upon the order in which student chooses to place the terms of the expression.

- |                    |                   |
|--------------------|-------------------|
| 1. $8y + 7$        | 9. $45 + 7a + 6b$ |
| 2. $4x + 35$       | 10. $-2g + 24$    |
| 3. $8p$            | 11. $b + 2d + c$  |
| 4. $3x/5$          | 12. $-6x + 12$    |
| 5. $3z + 12$       | 13. $23p + 45$    |
| 6. $9t + 300$      | 14. $-3z - x$     |
| 7. $201y + 6$      | 15. $99j + x$     |
| 8. $4\frac{1}{2}b$ | 16. $4j + 6k$     |

**unit 283**

Top correct equation to circle:  $s = 2t - 3$

- |      |      |       |
|------|------|-------|
| 1. c | 5. c | 8. b  |
| 2. a | 6. c | 9. a  |
| 3. a | 7. c | 10. b |
| 4. c |      |       |

**unit 284**

Answers may vary somewhat, depending upon the order in which student chooses to place the terms of the equation, and upon the letters chosen to represent the terms.

- |                       |                       |
|-----------------------|-----------------------|
| 1. $z = 2c + 3$       | 7. $b = 18 + z$       |
| 2. $t = (m + b) - 5$  | 8. $s = f - 3$        |
| 3. $s = 4(z + t)$     | 9. $m = \frac{1}{2}t$ |
| 4. $y = s - 5$        | 10. $m = 2s - 3$      |
| 5. $t = (m + z) - 16$ | 11. $m + w = s + t$   |
| 6. $s = t + 23$       | 12. $t = 3a - 5$      |

**unit 285**

- |                      |          |
|----------------------|----------|
| 1. c; 26             | 5. b; 33 |
| 2. b; 36             | 6. b; 4  |
| 3. b; 4              | 7. a; 7  |
| 4. a; $2\frac{1}{4}$ |          |

**unit 286**

Equations may vary somewhat, depending upon the order in which student chooses to place the terms of the equation, and upon the letters chosen to represent the terms. Answers (solutions to equations), however, should not vary.

- $t = 21 - 14$   
Answer: 7 min
- $w = 100 - 30$   
Answer: 70 lb
- $d = 280/2 - 20$   
Answer: 120 ft
- $2(3 + 6) = r$   
Answer: 18 times
- $m = 50 - 25$   
Answer: 25 min
- $9 = 2d - 3$   
Answer: 6 times
- $p = 208 - 70 - 100$   
Answer: 38 lb

**unit 287**

- $x + 8 = 20$   
 $x + 8 - 8 = 20 - 8$

- $x = 12$
- $p - 40 = -300$   
 $p - 40 + 40 = -300 + 40$   
 $p = -260$
- $5c = -35$   
 $5c/5 = -35/5$   
 $c = -7$

- $y/6 = -8$   
 $y/6 \times 6 = -8 \times 6$   
 $y = -48$
- $x + 15 = 7$   
 $x + 15 - 15 = 7 - 15$   
 $x = -8$

- $q - 25 = -15$   
 $q - 25 + 25 = -15 + 25$   
 $q = 10$

- $7r = -84$   
 $7r/7 = -84/7$   
 $r = -12$

- $z/7 = -8$   
 $z/7 \times 7 = -8 \times 7$   
 $z = -56$

**unit 288**

- |                 |                 |
|-----------------|-----------------|
| 1. Identity     | 9. Zero         |
| 2. Identity     | 10. Identity    |
| 3. Associative  | 11. Opposites   |
| 4. Commutative  | 12. Associative |
| 5. Distributive | 13. Opposites   |
| 6. Distributive | 14. Commutative |
| 7. Commutative  | 15. Identity    |
| 8. Identity     | 16. Zero        |

**unit 289**

- |      |      |       |
|------|------|-------|
| 1. c | 5. b | 9. c  |
| 2. b | 6. a | 10. d |
| 3. d | 7. c | 11. c |
| 4. c | 8. d | 12. b |

**unit 290**

Top question: yes  
 Correct solutions are 1, 2, 3, 6, 8, 9, 10, 11, 12, 14, 15, 18  
 Correct answers to wrong solutions are:  
 4. 5000      7. -106      16. 1000  
 5. -36      13. -60      17. -2

**unit 291**

**Across**

- |         |           |         |
|---------|-----------|---------|
| A. 46   | M. 925    | X. 63   |
| E. 27   | P. 55,005 | Y. 4008 |
| G. 2111 | R. 99     | Z. 15   |
| H. 7000 | S. 21     | BB. 375 |
| I. 64   | T. 49     | EE. 65  |
| J. 29   | U. 308    | FF. 16  |
| L. 12   | V. 111    | GG. 64  |

**Down**

- |        |           |         |
|--------|-----------|---------|
| B. 600 | K. 9520   | U. 333  |
| C. 81  | L. 15,010 | V. 1006 |
| D. 316 | N. 299    | W. 189  |
| E. 20  | O. 59     | AA. 55  |
| G. 202 | Q. 518    | CC. 71  |
| H. 749 | T. 4116   | DD. 56  |

**unit 292**

- |      |       |         |
|------|-------|---------|
| 1. 6 | 5. 13 | 9. 12   |
| 2. 5 | 6. 47 | 10. 70  |
| 3. 8 | 7. 17 | 11. 176 |
| 4. 1 | 8. 20 | 12. 15  |

**unit 293**

Path should follow these correctly-solved equations. NOTE: Student may connect these equations in a different order than this.

- |    |    |
|----|----|
| A. | G. |
| C. | I. |
| D. | L. |
| E. | N. |
| F. | O. |

**unit 294**

(left) Mike's path

- |                   |        |
|-------------------|--------|
| 8. $6\frac{1}{6}$ | 4. 1.5 |
| 7. 7.5            | 3. 6   |
| 6. 0.2            | 2. 100 |
| 5. 80             | 1. 30  |

(right) Basha's path

- |         |           |
|---------|-----------|
| 8. 11   | 4. 160    |
| 7. 12   | 3. -111   |
| 6. 0.2  | 2. 32     |
| 5. 32.5 | 1. 34.997 |

**unit 295**

- |        |        |        |        |
|--------|--------|--------|--------|
| A. yes | E. no  | I. no  | M. no  |
| B. yes | F. no  | J. no  | N. no  |
| C. yes | G. yes | K. no  | O. yes |
| D. yes | H. no  | L. yes | P. no  |

**unit 296**

The equations shown may not be exactly the equations written by student. Give credit for any equation that accurately reflects and solves the problem. The solutions, however, should not vary.

- $-6 + x = 12$   
Answer: 18
- $x = 14\frac{1}{2} - 6\frac{1}{2}$   
Answer: 8
- $x = \frac{(2 \times 5) - 3}{2}$   
Answer: 3 + bags
- $2 \times 32 - x = 7$   
Answer: 57 oz
- $\frac{3 + 2 + 6}{2} = x$

# Answers

Answer:  $5\frac{1}{2}$  packages

6.  $4 + (4 - 2) + 2(4 - 2) + x = 18$

Answer: 8

7.  $\frac{9 + (9 + 3)}{4} = x$

Answer:  $5\frac{1}{4}$  cans

8.  $\frac{30 - (3 + 3)}{6} = x$

Answer: 4

## unit 297

The equations shown may not be exactly the equations written by student. Give credit for any equation that accurately reflects and solves the problem. The solutions, however, should not vary.

1.  $(f + 15) + f = 75$

$f = 30$  min

2.  $d = 4.6 + 8.3$

$d = 12.9$  ft

3.  $d = 6.1 - 4.3$

$d = 1.8$  ft

4.  $t = 72/2 + 26$

$t = 62$  sec

5.  $10d - 31 = 469$

$d = 50$  ft

6.  $f + (f + 2) + 4(f + f + 2) = 70$

Toni saw 6

Mike saw 8

Basha saw 56

7.  $t = 70 - (2 \times 4)$

$t = 62^\circ$

## unit 298

1. 6, 4

7. -4, 3, -6

2. -1

8. 3, -2, 0

3. -6, -2, 7

9. 7, 16, 20, -5

4. -5, 3, -2

10. -1, -4, -6

5. 6, 0

11.  $x + 10 > 18$

6. 11

12.  $3x + 6 \leq 2$

## unit 299

1.  $x < 2$

3.  $x > -1$

2.  $x > -2$

4.  $x < 3$

5–8. Check student graphs to see that solutions are shown correctly. 5 and 6 should have solid circles at -1 and -3 respectively. 7 and 8 should have open circles at -8 and 6 respectively.

## unit 300

A.  $x = 10, y = 2, (10, 2)$

$x = 5, y = 1, (5, 1)$

$x = 0, y = 0, (0, 0)$

$x = -30, y = -6, (-30, -6)$

$x = -35, y = -7, (-35, -7)$

B.  $x = -1, y = 4, (-1, 4)$

$x = 0, y = 5, (0, 5)$

$x = 1, y = 6, (1, 6)$

$x = 2, y = 7, (2, 7)$

$x = 3, y = 8, (3, 8)$

C.  $x = 2, y = -1, (-2, -1)$

$x = 0, y = 0, (0, 0)$

$x = 2, y = 1, (2, 1)$

$x = 4, y = 2, (4, 2)$

$x = 6, y = 3, (6, 3)$

D.  $x = -5, y = -1, (-5, -1)$

$x = -2, y = 0, (-2, 0)$

$x = 1, y = 1, (1, 1)$

$x = 4, y = 2, (4, 2)$

$x = 7, y = 3, (7, 3)$

E.  $x = -3, y = -9, (-3, -9)$

$x = -1, y = -3, (-1, -3)$

$x = 0, y = 0, (0, 0)$

$x = 2, y = 6, (2, 6)$

$x = 5, y = 15, (5, 15)$

## unit 301

1. 7

2. 15

A.  $x = 4, y = 10, (4, 10)$

$x = 5, y = 9, (5, 9)$

$x = 8, y = 6, (8, 6)$

$x = 10, y = 4, (10, 4)$

$x = 12, y = 2, (12, 2)$

B.  $x = 3, y = 0, (3, 0)$

$x = 0, y = -3, (0, -3)$

$x = -2, y = -5, (-2, -5)$

$x = 5, y = 2, (5, 2)$

$x = -1, y = -4, (-1, -4)$

C.  $x = 2, y = -8, (2, -8)$

$x = -1, y = 4, (-1, 4)$

$x = 4, y = -16, (4, -16)$

$x = -5, y = 20, (-5, 20)$

$x = 7, y = -28, (7, -28)$

D.  $x = -3, y = 9, (-3, 9)$

$x = -1, y = 5, (-1, 5)$

$x = 0, y = 3, (0, 3)$

$x = 3, y = -3, (3, -3)$

$x = 6, y = -9, (6, -9)$

E.  $x = 4, y = -1, (4, -1)$

$x = 6, y = 0, (6, 0)$

$x = 10, y = 2, (10, 2)$

$x = 14, y = 4, (14, 4)$

$x = 16, y = 5, (16, 5)$

## unit 302

1. (-6, 6)

7. (-3, -8)

2. (5, 4)

8. L

3. (3, -2)

9. J

4. (2, 5)

10. H

5. (-7, 3)

11. I

6. (-4, -4)

12. K

13–20. Check to see that student has drawn creatures at correct locations.

## unit 303

If student plots points and draws lines correctly, the result will be the drawing of a coiled snake.

## units 304–305

a.  $x = -3, y = -2, (-3, -2)$

$x = -2, y = 0, (-2, 0)$

$x = -1, y = 2, (-1, 2)$

$x = 0, y = 4, (0, 4)$

b.  $x = -2, y = 2, (-2, 2)$

$x = 1, y = -1, (1, -1)$

$x = 2, y = -2, (2, -2)$

$x = 3, y = -3, (3, -3)$

$x = 4, y = -4, (4, -4)$

c.  $(-2, -4); (-1, -2); (0, 0);$

$(1, 2); (2, 4)$

d.  $(-1, 3); (0, 1); (1, -1); (2, -3)$

e.  $(-4, 1); (-3, 2); (-2, 3); (-1, 4)$

f. c

## units 306–307

1. (5, 3)

2. (5, -1)

3. (1, -3)

4. (1, 4)

5–7. These three answers

may be in any order:

(0, 5) corresponds to (3, 2)

(-3, 2) corresponds to (0, -1)

(-5, 4) corresponds to (-2, 1)

8. F

9. S

10. T

11. (1, 6)

Check student grid to see that correct reflection of the figure has been drawn.

12–14. These three answers may be in any order.

(-3, 6) corresponds to (3, 6)

(-5, -2) corresponds to (5, -2)

(-1, -2) corresponds to (1, -2)

Check student grid to see that transformation of the hiker has been drawn with correct corresponding points.

## units 308–309

Check student drawings to see that sequences are correct.

## unit 310

Proportions may differ, depending on the order student chooses to write the terms. These are likely proportions. The solutions should not differ.

1.  $4.5/2 = x/6$

Answer: 13.5 miles

2.  $21/3 = 35/x$

Answer: 5 hours

3.  $0.75/3 = x/13$

Answer: 3.25 qt

4.  $15/5 = x/3$

Answer: 9 times

5.  $9/6 = 6/x$

Answer: 4 hours

6.  $n = 4$

7.  $n = 18$

