

## Answers for Lesson 3-1, pp. 122–124 Exercises

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|---|-------------|--------------------|
| 1. $-10$  | 2. $6$      | 3. $-1$            |
| 4. $-34$  | 5. $-3$     | 6. $27$            |
| 7. $-60$  | 8. $-2$     | 9. $96$            |
| 10. $112$   | 11. $3$     | 12. $4\frac{1}{2}$ |
| 13. $6\frac{2}{5}$  | 14. $120$   | 15. $45$           |
| 16. $50$  | 17. $16$    | 18. $-15$          |
| 19. $-8$  | 20. $-1$    |                    |
| 21. $2n + 4028 = 51,514$ ; 23,743 books                           |             |                    |
| 22. $2m + 18 = 60$ ; 21 min                                       |             |                    |
| 23. $C = 39.95 + 0.35m$ ; 85 min                                  |             |                    |
| 24. Subtr. Prop. of Eq. Simplify.<br>Mult. Prop. of Eq. Simplify. |             |                    |
| 25. Add. Prop. of Eq. Simplify.<br>Mult. Prop. of Eq. Simplify.   |             |                    |
| 26. Subtr. Prop. of Eq. Simplify.<br>Mult. Prop. of Eq. Simplify. |             |                    |
| 27. Subtr. Prop. of Eq. Simplify.<br>Div. Prop. of Eq. Simplify.  |             |                    |
| 28. $4$   | 29. $75$    | 30. $-30$          |
| 31. $1$   | 32. $0.382$ | 33. $0$            |
| 34. $8\frac{3}{4}$  | 35. $-6.4$  | 36. $2$            |
| 37. $2$   | 38. $2.6$   | 39. $2.6$          |

**Answers for Lesson 3-1, pp. 122–124 Exercises (cont.)**

40.  $8 + \frac{c}{-4} - 8 = -6 - 8$  Subtr. Prop. of Eq.  
 $\frac{c}{-4} = -14$  Simplify.  
 $\frac{c}{-4}(-4) = -14(-4)$  Mult. Prop. of Eq.  
 $c = 56$  Simplify.
41.  $7 - 3k - 7 = -14 - 7$  Subtr. Prop. of Eq.  
 $-3k = -21$  Simplify.  
 $\frac{-3k}{-3} = \frac{-21}{-3}$  Div. Prop. of Eq.  
 $k = 7$  Simplify.
42.  $14 - 6 = 6 - 2p - 6$  Subtr. Prop. of Eq.  
 $8 = -2p$  Simplify.  
 $\frac{8}{-2} = \frac{-2p}{-2}$  Div. Prop. of Eq.  
 $-4 = p$  Simplify.
43.  $\frac{-y}{2} + 14 = -1$   
 $\frac{-y}{2} + 14 - 14 = -1 - 14$  Subtr. Prop. of Eq.  
 $\frac{-y}{2} = -15$  Subtraction  
 $2(\frac{-y}{2}) = 2(-15)$  Mult. Prop. of Eq.  
 $-y = -30$  Multiplication  
 $-1(-y) = -1(-30)$  Mult. Prop. of Eq.  
 $y = 30$  Multiplication
44. A
45.  $p = 0.8c - 500$ ; \$6437.50
46.  $c = 10,000d + 128,000,000$ ; about 2200 days
47. 43
48. 5
49. 2
50. 19
51. 25
52. 87
53. -28
54. -34
55. 15.5

## Answers for Lesson 3-1, pp. 122–124 Exercises (cont.)

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56. 19

57. 31.5

58.  $x$  is the amount he needs to save each week; in 16 weeks he will save  $16x$  dollars and have a total of  $(40 + 16x)$  dollars. That amount should equal \$129.

59. The neg. sign was dropped;  $-1$ .

60.  $-12$  was divided by 3 instead of multiplied by 3;  $-36$ .

61. Answers may vary.

62. 5;  $-1$ ; 6;  $-9$

63.

Fahrenheit	Celsius
$212^\circ$	$100^\circ$
$98.6^\circ$	$37^\circ$
$68^\circ$	$20^\circ$
$32^\circ$	$0^\circ$
$-40^\circ$	$-40^\circ$

64. a.  $104^\circ\text{F}$ ;  $30^\circ\text{F}$ ;  $-50^\circ\text{F}$

b. Answers may vary. Sample: The formula gives good estimates except for  $-40^\circ\text{C}$ .

65. This eliminates the decimals.

66.  $8 - y$ ; 5

67.  $1 - 2y$ ; 2

68.  $12 - y$ ; 7

## Answers for Lesson 3-2, pp. 129–131 Exercises

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1. 9                                      2. 8                                      3.  $5\frac{4}{7}$   
4. 3                                      5.  $2\frac{6}{7}$                                       6. 7  
7. 4                                      8. 3                                      9.  $-3$   
10.  $x + \frac{1}{2}x = 1725$ ; \$1150  
11.  $x + 9 + x = 25$ ; 8 ft by 9 ft  
12. 3                                      13. 8                                      14.  $-2$   
15.  $\frac{2}{3}$                                       16. 2                                      17. 4  
18. 4                                      19.  $6\frac{4}{5}$                                       20.  $13\frac{2}{5}$   
21. 11                                      22.  $1\frac{1}{2}$                                       23. 46  
24. 7                                      25.  $-26$                                       26.  $33\frac{3}{5}$   
27.  $\frac{3}{14}$                                       28.  $\frac{1}{3}$                                       29. 3  
30. 2                                      31. 21                                      32. 0.5  
33. 3.5                                      34. 9                                      35. 4.27  
36. 6                                      37. 5                                      38. 28  
39. 2                                      40. 9                                      41. 5  
42. 20                                      43. 1                                      44.  $\frac{1}{12}$   
45.  $5\frac{3}{5}$                                       46. 44                                      47. 9  
48.  $-0.48$                                       49.  $-3$                                       50. 3.08  
51. The student forgot to multiply  $-1$  by 8.  
52. Answers may vary. Sample: Combine  $-3m$  and  $5m$  first to simplify the left side of the equation.  
53. Answers may vary. Sample: multiply by  $-2$  to eliminate fractions.

**Answers for Lesson 3-2, pp. 129–131 Exercises (cont.)**

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54. 5

55.  $4\frac{2}{3}$

56. 7 h

57. 92 mi

58. 120 min

59. Answers may vary. Sample:  $3x + 5 - 4x + 9$

60. 64

61. 25

62. 20

63. \$11.68

64. 5 weeks

65. a.  $3(x - 2) = 6$

66. about 15 gal

b. (4, 6)

c.  $3(4 - 2) = 3(2) = 6$

67. a.  $\frac{1}{5}; \frac{1}{7}$

68. \$100,000

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

c.  $\frac{1}{7}t$

d.  $\frac{1}{5}t + \frac{1}{7}t = 1; 2\frac{11}{12}$  h

**Answers for Lesson 3-3, pp. 136–138 Exercises**

1. 3                                  2. 5                                  3. 7  
4. 3                                  5. 3                                  6. -2  
7. 7                                  8. -3                                  9. 9  
10. 7  
11.  $16.95 + 0.05m = 22.95 + 0.02m$ ; 200 min  
12.  $44 + 30m = 99 + 25m$ ; 11 months  
13. 4.25                                  14. 2.5  
15. 0                                  16.  $5.\bar{6}$   
17. a. Answers may vary. Sample:  
0:  $9 = 9$   
3:  $-9 = -9$   
-4:  $33 = 33$   
-6:  $45 = 45$   
b. identity  
18. identity                                  19. no solution                                  20. identity  
21. identity                                  22. no solution                                  23. no solution  
24. no solution                                  25. 0                                  26. identity  
27. 10                                  28. no solution                                  29. identity  
30.  $-2\frac{1}{5}$                                   31. 0                                  32. C  
33.  $1200 + 9b = 25b$ ; 75 bags  
34.  $x = 5, w = 3, y = 2, a = 9$   
35.  $a = 3, b = 6, c = 5, d = \frac{1}{3}$   
36. The student forgot a negative sign on the left side of the equation; -5.

**Answers for Lesson 3-3, pp. 136–138 Exercises (cont.)**

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37. The student subtracted  $y$  from both sides instead of adding  $y$  to both sides; 5.3.
38. a–b. no solution
- c. The graphing calculator shows parallel lines (no intersection), which indicates that there is no solution. Part (b) also shows that there is no solution.
39. No; an equation with a solution of 0 *has* a solution. An equation with no solution is not true for any value of the variable.
40. a. no
- b. 1 and 3; at 3,  $4 - 3(x + 1)$  is less than  $5(x - 3)$ , while at 1 the opposite is true. The values must be the same for some value of  $x$  between 1 and 3.
- c. for values of  $x$  greater than 2
41. Answers may vary. Sample:  $3x = 12x$
42. Answers may vary. Sample:  $4x + 4 = 3x + 7$
43. Answers may vary. Sample:  $-\frac{x}{2} + 4 = 2x + 7$
44. Answers may vary. Sample:  $3x + 1 = 3(x + \frac{1}{3})$
45. Answers may vary. Sample:  $14x - 12 = 7(2x + 3)$
46. Answers may vary. Sample:  $7x - 2 = 5x$
47. 18 units
48. rectangle: 6 units, 2 units, 4 units, 4 units

## Answers for Lesson 3-4, pp. 145–148 Exercises

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1. \$9.50/h
2. \$.40/lb
3. 131 cars/week
4. 400 cal/h
5. \$0.24; \$0.22; 12-oz.
6. Mario
7. a. \$0.97/mile  
 $c = 0.97m$   
b. \$1164  
c. 845 miles
8. a. \$0.25 mi/mm;  $d = 0.25m$   
b. 48 min
9. A
10. A
11. B
12. A
13. 480
14. 1.2
15. 10,800
16. 7.5
17. 11.25
18. 5
19. 25.2
20. 7.5
21. 6
22. -20
23. 14.4
24. 700
25. 105.6 km
26. 0.5
27.  $8\frac{11}{12}$
28.  $7\frac{1}{3}$
29.  $-3\frac{1}{2}$
30. 8
31. 165
32. 12.5
33. 18.75
34. 14.60
35. 18.25
36. 504
37. 2520
38. 20 mi/h
39. 15 mi/h
40. 12 mi/h
41. 1 mi/h
42. 1 mi/h
43. about 0.28 mi/h
44. 3
45.  $5\bar{3}$
46. -16
47. 10.5 mm
48. 246.4 ft/s
49. about 646 students
50. about 750 students
51. about 1000 students



**Answers for Lesson 3-4, pp. 145–148 Exercises (cont.)**

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**52.** Answers may vary. Sample: Multiply the numerator of each side by the denominator of the other side. Set the products equal to each other and solve the equation.

$$\frac{7}{5} = \frac{x}{15}, (7)(15) = 5x, x = 21$$

**53.** A

**54.** 5 people/mi<sup>2</sup>, 2775 people/mi<sup>2</sup>, 84 people/mi<sup>2</sup>

**55.** Check students' work.

**56.** Bonnie: \$56.00, Tim: \$32.00

**57.** 48 V

**58.** -7.5

**59.** 9

**60.** -32

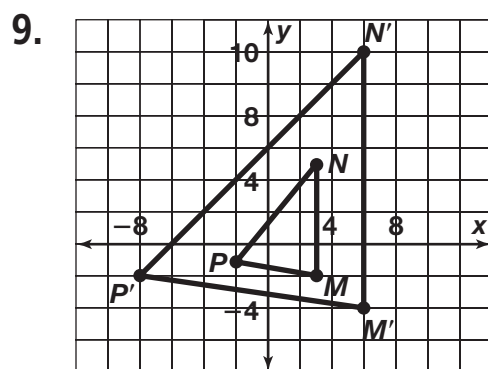
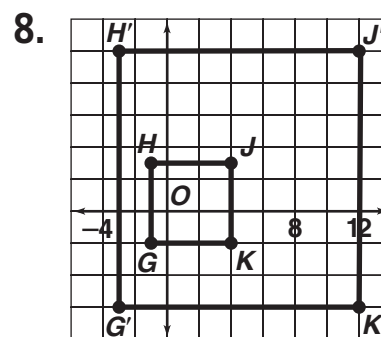
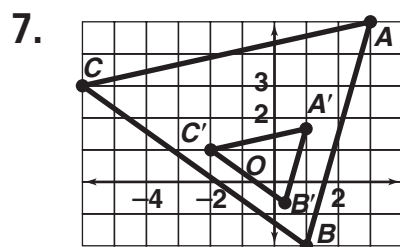
**61. a.** 5.47 min/mi

**b.** 5.37 min/mi

**Answers for Lesson 3-5, pp. 152–155 Exercises**

1.  $\overline{AB}$  and  $\overline{PQ}$ ,  $\overline{BC}$  and  $\overline{QR}$ ,  $\overline{CA}$  and  $\overline{RP}$ ,  
 $\angle A$  and  $\angle P$ ,  $\angle B$  and  $\angle Q$ ,  $\angle C$  and  $\angle R$
2.  $\overline{ED}$  and  $\overline{JH}$ ,  $\overline{DF}$  and  $\overline{HK}$ ,  $\overline{FE}$  and  $\overline{KJ}$ ,  
 $\angle D$  and  $\angle H$ ,  $\angle E$  and  $\angle J$ ,  $\angle F$  and  $\angle K$
3. 3.125 ft
4.  $13.\overline{33}$  cm
5. 80 in.

6. 40 m



10. 4.8 ft
11. 10.8 in.
12. 87.5 mi
13. 145.25 mi
14. 325.5 mi
15. 350 mi
16. a. Lincoln to San Paulo = 16 mi  
 Lincoln to Duncanville = 26 mi  
 San Paulo to Duncanville = 18 mi  
 b. 26 mi roundtrip
17. 1 cm : 8 km
18. 4 in. by 6 in.
19.  $2\frac{2}{3}$  in. by 4 in.
20. 2 in. by 3 in.
21. 3.2 in. by 4.8 in.
22. 33.75 in.

**Answers for Lesson 3-5, pp. 152–155 Exercises (cont.)**

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23. 22.5 ft by 27 ft

24. a. Answers may vary. Sample:  $GK$  and  $RQ$  are not corresponding sides.

b.  $\frac{GH}{PQ} = \frac{HL}{RQ}$

25. 1 in. : 12 ft

26. 9 ft by 12 ft

27. 3 ft

28.  $216 \text{ ft}^2$

29. yes; because it is 6 ft wide and 9 ft long

30. no;  $\frac{JH}{DC} \neq \frac{FG}{AB}$

31. Check students' work.

32. 48 cm, 20 cm

33. C

34.  $a = 8 \text{ cm}$ ,  $b = 6 \text{ cm}$ ,  $c = 10 \text{ cm}$

35. about 1 in. : 30.5 mi

36. 400,400 km

37. a.  $\frac{8}{8+x} = \frac{5}{7}$

b. 3.2

c. 11.2 in.

d.  $39.2 \text{ in.}^2$

## Answers for Lesson 3-6, pp. 162–165 Exercises

1. a. Let  $w =$  width.  
 b.  $\ell = w + 3$   
 c.  $2w + 2(w + 3) = 30$ ; 6  
 d. 9 in.
2. 2 in.; 10 in.
3. 9 cm; 18 cm
4. 5 yd; 13 yd
5. 304, 305, 306
6. a. Let  $n =$  the first integer.  
 b. 2  
 c.  $n + 2$   
 d.  $n + n + 2 = 118$ ; 58, 60
7.  $-148, -150$
8. a. Let  $n =$  the first integer.  
 b. 2  
 c.  $n + 2$   
 d.  $n + n + 2 = 56$ ; 27, 29
9. a. Let  $t =$  time for the moving van.  
 b.  $t - \frac{1}{2}$

c.

Vehicle	Rate	Time	Distance Traveled
Moving van	■ 40	■ $t$	■ $40t$
Car	■ 60	■ $t - \frac{1}{2}$	■ $60(t - \frac{1}{2})$

d.

$t$	van	car
1	40	30
$1\frac{1}{2}$	60	60

$t = 1\frac{1}{2}$   
 $t - \frac{1}{2} = 1$   
 The car catches the van after traveling 1 hour.

## Answers for Lesson 3-6, pp. 162–165 Exercises (cont.)

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10.  $1\frac{17}{30}$  h
11. a.  $x; 2\frac{1}{4} - x$   
b.  $22x = 32(2\frac{1}{4} - x); 1\frac{1}{3}$  h
12. a.  $x; 3 - x$   
b.  $320x = 280(3 - x); 1\frac{2}{5}$  h
13. a.  $x; x - 20$   
b.  $4x + 4(x - 20) = 250; 41\frac{1}{4}$  mi/h;  $21\frac{1}{4}$  mi/h
14. 15mi/h; 20mi/h
15.  $-31, -29, -27$
16. a.  $1.5 + 2x + x$   
b. 15.5 ft  
c.  $3x + 1.5 = 15.5; 10\frac{5}{6}$  ft or 10 ft 10 in.
17. 12:30 P.M.
18. 3:45
19. a. II.  
b. They are all multiples of three.
20. 2:30 P.M.
21. 175 mi/h; 375 mi/h
22. a. 4 P.M.  
b. the distance traveled
23. 1993, 1994, 1995

## Answers for Lesson 3-6, pp. 162–165 Exercises (cont.)

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24. Answers may vary. Sample: Define a variable to represent the first integer. Use this variable to write expressions for the other integers. Write an equation that describes how the integers are related. Solve this equation to find the integers.
25. Answers may vary. Sample: Jeff and Anne both left school for the city at the same time. Jeff drove 35 mi/h and Anne drove 20 mi/h. Jeff arrived 1 h before Anne. How long did each drive?
26. a.  $n + n + 1 + n + 2 = 126$ ; 41, 42, 43  
b. Yes; if  $n$  is the middle integer,  $n - 1$  is the previous integer and  $n + 1$  is the next integer. The three integers would be consecutive.
27. 6 6-V; 4 12-V
28.  $x + 2x - 65 + x - 10 = 165$ ; 60; 55 cm, 60 cm, 50 cm
29. a.  $\frac{5}{6}$  h  
b. 10:15 A.M.
30.  $-9, -7, -5, -3, -1$

## Answers for Lesson 3-7, pp. 171–173 Exercises

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1. 50%; increase
2.  $33\frac{1}{3}\%$ ; decrease
3. 25%; increase
4. 20%; decrease
5.  $33\frac{1}{3}\%$ ; increase
6. 25%; decrease
7. 25%; increase
8. 20%; increase
9. 84.4%; increase
10. 71.1%; increase
11. 60.7%; decrease
12. 14.4%; increase
13. 39%
14. 60%
15. 0.5 ft
16. 0.05 cm
17. 0.005 g
18. 0.5 in.
19.  $19.25 \text{ cm}^2$ ,  $29.25 \text{ cm}^2$
20.  $48.75 \text{ mi}^2$ ,  $63.75 \text{ mi}^2$
21.  $46.75 \text{ in.}^2$ ,  $61.75 \text{ in.}^2$
22.  $51.75 \text{ km}^2$ ,  $68.75 \text{ km}^2$
23.  $253.75 \text{ in.}^2$ ,  $286.75 \text{ in.}^2$
24.  $303.75 \text{ km}^2$ ;  $340.75 \text{ km}^2$
25. 25%
26. 25%
27. 12.5%
28. 12.5%
29.
  - a.  $48 \text{ cm}^3$
  - b.  $74.375 \text{ cm}^3$
  - c.  $28.125 \text{ cm}^3$
  - d.  $26.375 \text{ cm}^3$
  - e. 55%
30. 23%; decrease
31. 22%; decrease
32. 157%; increase
33. 175%; increase
34. 4%; increase
35. 3%; decrease
36. 56%; decrease
37. 9%; decrease

**Answers for Lesson 3-7, pp. 171–173 Exercises (cont.)**

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38. 17%; increase
39. 2%
40. 19%
41. 1 mm
42. no; 16% increase but a 14% decrease
43. no; increases to \$70.40 but decreases to \$63.36
44. Answers may vary. Sample: Joan bought shoes for \$10. Sarah bought the same shoes 3 days later for \$7. What was the percent change? 30% decrease
45.  $24.5 \text{ cm}^2$ ,  $25.5 \text{ cm}^2$
46.  $58 \text{ mi}^2$ ,  $59.6 \text{ mi}^2$
47.  $54.1 \text{ in.}^2$ ,  $54.3 \text{ in.}^2$
48. Answers may vary. Sample: Use the greatest possible error to calculate the maximum, minimum, and measured areas. Find the amounts by which the maximum and minimum differ from the measured area. Divide the greater difference by the measured area.
49. Jorge found the change of \$5 but divided by the final price instead of the original price.
50. a. 100%
- b. 100%
- c. 50%
- d. 50%
51. 11%
52. 34%
53. a. 9%, 3%
- b. Answers may vary. Sample: The larger a measure, the smaller is the percent error.
54. Yes;  $148.3 > 3(48.7) = 146.1$ , and  $\frac{148.3 - 48.7}{48.7} \approx 205\%$ .



**Answers for Lesson 3-7, pp. 171–173 Exercises (cont.)**

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55. a. 21%  
b. 21%  
c. 21%; answers may vary. Sample:  
 $1.1a \cdot 1.1a = 1.21a^2$ , which is 21% greater than  $a \cdot a = a^2$ .  
Relationship between % increase of side and area of the square doesn't depend on the side length.

**Answers for Lesson 3-8, pp. 178–180 Exercises**

1. 13                      2. 20                      3.  $\frac{1}{3}$   
4. 30                      5. 0.5                      6.  $\frac{6}{7}$   
7. -1.1                      8. 1.4                      9. 0.6  
10. -12                      11.  $\frac{5}{4}$                       12.  $\pm 0.1$   
13. irrational                      14. rational                      15. irrational  
16. rational                      17. 5 and 6                      18. 5 and 6  
19. -12 and -11                      20. 13 and 14                      21. 3.46  
22. -14.25                      23. 107.47                      24. -12.25  
25. 0.93                      26.  $\pm 20$                       27. 0  
28.  $\pm 25$                       29.  $\pm \frac{3}{7}$                       30.  $\pm 1.3$   
31.  $\pm \frac{1}{9}$                       32.  $\pm 27$                       33.  $\pm 1.5$   
34.  $\pm 16$                       35.  $\pm 0.1$                       36.  $\pm \frac{8}{11}$   
37.  $\pm 202$                       38. 1                      39. C  
40. 21                      41.  $-\frac{2}{5}$                       42. 1.41  
43. 1.26                      44. -5.48                      45. -33  
46. -0.8                      47. 6.40                      48. 8.66
49. Answers may vary. Sample: The first expression means the neg. square root of 1 and the second expression means the pos. square root of 1.
50. Answers may vary. Sample: 3 and 4
51. 4
52. a. 5 s  
b. 10 s  
c. No; the object takes twice as long to fall.

**Answers for Lesson 3-8, pp. 178–180 Exercises (cont.)**

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53. False; zero has one square root.

54. false;  $\sqrt{1} = 1$

55. true

56. False; answers may vary. Sample:  $\sqrt{4} + \sqrt{9} \neq \sqrt{4 + 9}$ .

57. a. 4 units<sup>2</sup>

b.  $\frac{1}{2}$  unit<sup>2</sup>

c. 2 units<sup>2</sup>

d.  $\sqrt{2}$  units

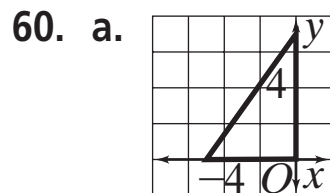
## Answers for Lesson 3-9, pp. 184–187 Exercises

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1. 10                                      2. 25                                      3. 17  
4. 26                                      5. 2.5                                      6. 1  
7. 4                                        8. 5                                        9. 12  
10. 7.1                                    11. 7.5                                    12. 0.6  
13. 1.2 m                                14. about 15.5 ft                      15. about 5.8 km  
16. yes                                    17. no                                    18. no  
19. yes                                    20. no                                    21. yes  
22. yes                                    23. no                                    24. no  
25. yes                                    26. 1.5                                    27.  $\frac{4}{15}$   
28. 1.7                                    29. 1.25                                   30. 2.6  
31. 7.0  
32. a. 13.4 ft  
    b.  $80.5 \text{ ft}^2$   
33. C                                      34. 1000 lb                              35. 559.9  
36. 9.0                                    37. 9.7  
38. a. These lengths could be 2 legs or one leg and the hypotenuse.  
    b. about 12.8 in. or 6 in.  
39. a.  $6^2 + 8^2 = 36 + 64 = 100 = 10^2$   
    b. 5; 12; 7; 41  
    c. Answers may vary. Sample: 10, 24, 26  
40. a. 6.9 ft  
    b. about  $89.2 \text{ ft}^2$   
    c. 981 watts

## Answers for Lesson 3-9, pp. 184–187 Exercises (cont.)

41. about 12.8 ft
42. a. Answers may vary.  
Sample:  $\sqrt{5}$ ,  $\sqrt{20}$ , 5  
b. 5 units<sup>2</sup>
43. a.  $\approx 13.4$  ft;  $\approx 17.0$  ft  
b.  $\approx 10.6$  ft  
c. No; the hypotenuse  $d$  must be longer than each leg.
44. An integer has 2 as a factor; the integer is even; if an integer is even, then it has 2 as a factor; true.
45. A figure is a square; the figure is a rectangle; if a figure is a rectangle then the figure is a square; false.
46. You are in Brazil; you are south of the equator; if you are south of the equator you are in Brazil; false.
47. An angle is a right angle; its measure is  $90^\circ$ ; if the measure of an angle is  $90^\circ$ , then it is a right angle; true.
48. 52 units<sup>2</sup>      49. 6 in.      50. 15
51. 14.0      52. 10      53. 11.3
54. 2.8      55. 8.1      56. 10
57.  $4\sqrt{3}$       58. 5
59.  $n^2 + (n + 1)^2 = (n + 2)^2$ ; 3, 4, 5



b.  $\sqrt{74}$

**Answers for Lesson 3-9, pp. 184–187 Exercises (cont.)**

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61. a.  $a^2 + 2ab + b^2$

b.  $c^2$

c.  $\frac{ab}{2}$

d.  $(a + b)^2 = c^2 + 4\left(\frac{1}{2}ab\right); a^2 + 2ab + b^2 = 2ab + c^2; a^2 + b^2 = c^2$

e. This equation is the same as the Pythagorean Thm.