

**Lesson 1.3, continued**

3. The right side of the equation should be divided (not multiplied) by 3.

$$3x = 12$$

$$x = 4$$

4. 1 should be subtracted from (not added to) the right side of the equation.

$$4x + 1 = 12$$

$$4x = 11$$

$$x = \frac{11}{4}$$

5. No errors

6. 3 should be subtracted from (not added to) the right side of the equation.

$$8x + 3 = 5$$

$$8x = 2$$

$$x = \frac{1}{4}$$

7.  $5x$  should be subtracted from (not added to) the left side of the equation.

$$3(x - 2) = 5(4 + x)$$

$$3x - 6 = 20 + 5x$$

$$-2x - 6 = 20$$

$$-2x = 26$$

$$x = -13$$

8. Adding  $\frac{1}{2}x$  to  $\frac{1}{4}x$  on the left side of the equation should result in  $\frac{3}{4}x$  (not  $\frac{1}{3}x$ ).

$$\frac{1}{4}x + 2 = 4 - \frac{1}{2}x$$

$$\frac{3}{4}x + 2 = 4$$

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

$$x = \frac{8}{3}$$

9. no errors    10. 4    11. 6    12. -2    13. -3  
 14. 2    15. 20    16. 4    17. 6    18. 4    19. -25  
 20.  $\frac{3}{4}$     21.  $-\frac{1}{6}$     22. -1    23. -2    24.  $\frac{16}{3}$   
 25.  $-\frac{3}{4}$     26.  $-\frac{3}{8}$     27. 2    28. 2    29.  $\frac{1}{2}$     30.  $-\frac{3}{7}$   
 31. -1    32.  $\frac{7}{2}$     33. 12    34. side lengths: 12 in.  
 35. side lengths: 15 in.    36. \$50.50    37. 5

**Practice Level B**

1. 21    2. 6    3. 1    4. -3    5. 1    6. 10    7. 4

8.  $\frac{7}{2}$     9. 8    10. -25    11. 3    12.  $\frac{9}{4}$     13.  $-\frac{15}{2}$   
 14. 0    15. -2    16.  $\frac{5}{16}$     17.  $-\frac{8}{3}$     18.  $\frac{3}{4}$     19.  $\frac{1}{10}$   
 20.  $\frac{25}{4}$     21. -2    22. length: 23 ft, width: 16 ft  
 23. \$9.00    24. \$10.00/h    25. 2.5 h    26. 58 mi/h

**Practice Level C**

1. 3    2. 8    3.  $-\frac{5}{8}$     4. -1    5. 1    6. 5    7. 2  
 8.  $\frac{11}{3}$     9. 5    10. 4    11.  $-\frac{6}{5}$   
 12. all real numbers    13. no solution  
 14. all real numbers    15. all real numbers  
 16. all real numbers    17. side lengths: 5, 10, 8;  
 side lengths: 11, 4, 8    18. \$106.21    19. 72 ft  
 20. 6 h    21. 2.5 h

**Study Guide**

1.  $\frac{1}{2}$     2. 4    3. -3    4. -1    5. 4    6. 1    7. 2  
 8. -2    9. 14.4 h

**Problem Solving Workshop:  
Worked Out Example**

1. 15 ft    2. 65 points    3. 3    4. 5 shirts and  
 3 pairs of jeans

**Challenge Practice**

1. 1    2.  $\frac{7}{9}$  or  $-\frac{7}{9}$     3.  $r = \frac{d}{a} + \frac{c}{2}$ ;  $a \neq 0$   
 4.  $d = \frac{25}{n^2 - n} - \frac{2a}{n - 1}$ ;  $n \neq 0$ ;  $n \neq 1$   
 5. 22 min 38 sec    6. 8.7 ft

**Lesson 1.4****Teaching Guide**

1.  $c = 2\pi r$ ; Divide both sides by  $2\pi$ .  
 2. the further away from the inner lane the longer the track's circumference; A designer would need to know exactly how much longer each lane is to correctly stagger the starting points.

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