

Lesson 1.4, continued

Investigating Algebra Activity

x	$2y - 3x = -4$
-2	-5
4	4
8	10

x	$y = \frac{3x - 4}{2}$
-2	-5
4	4
8	10

1. Answers may vary. 2. They are the same.

3. $y = \frac{3x - 4}{2}$ 4. They are the same.

5. Answers may vary. 6. *Sample answer:* If you rewrite a formula or equation before making substitutions for the variables, you are less likely to make simple computational errors.

Graphing Calculator Activity

1. 2 2. 0.06 or 6% 3. 21.44 ft² 4. 2.2 in.

5. 25.7 m

Practice Level A

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

8. 5 9. 4 10. 3 11. -5 12. $-\frac{16}{15}$ 13. 10

14. $-\frac{3}{2}$ 15. $\frac{9}{2}$ 16. $\frac{16}{3}$ 17. $\frac{11}{5}$ 18. -5

19. $t = \frac{d}{r}$ 20. $r = \frac{C}{2\pi}$ 21. $r = \frac{l}{P_y}$ 22. $t = \frac{l}{P_y}$

23. $x = \frac{2h}{\sqrt{3}}$ 24. $b = \frac{d}{h}$ 25. $w = \frac{P - 2l}{2}$

26. $x = \frac{P}{3}$ 27. $C = \frac{5}{9}(F - 32)$

28. $h = \frac{2d}{b_1 + b_2}$ 29. $x = \frac{P}{4}$; 11 cm

30. $h = \frac{2d}{b}$; 4 ft

Practice Level B

1. 5 2. 1 3. 6 4. $-\frac{14}{5}$ 5. $-\frac{15}{2}$ 6. $\frac{3}{4}$ 7. 0

8. $-\frac{7}{5}$ 9. 1 10. -4 11. $\frac{21}{4}$ 12. 15

13. $F = \frac{9}{5}C + 32$ 14. $b = \frac{P - 2l}{2}$

15. $c = P - a - b$ 16. $d_1 = \frac{2d}{d_2}$

17. $b_1 = \frac{2d}{h} - b_2$ 18. $h = \frac{P}{\pi r^2}$ 19. $h = \frac{S}{2\pi r}$

20. $h = \frac{3V}{\pi r^2}$ 21. $h = \frac{d}{b}$; 9 cm

22. $C = \frac{5}{9}(F - 32)$; 25° C

23. 4.8 in. 24. 9.6 in. 25. no

Practice Level C

1. $\frac{5}{2}$ 2. $\frac{25}{2}$ 3. $\frac{1}{2}$ 4. $-\frac{4}{3}$ 5. $\frac{9}{4}$ 6. $-\frac{1}{2}$ 7. $\frac{7}{6}$

8. $\frac{4}{3}$ 9. 1 10. $\frac{1}{2}$ 11. $\frac{3}{5}$ 12. -15

13. $r = \frac{S}{\pi x} - r$; 8.3 cm 14. $h = \frac{S - 2\pi r^2}{2\pi r}$; 6.1 ft

15. \$2.00 for peanut butter, \$1.50 for caramel

16. $P = 2x + 1.5y$; P is the total profit, x is the number of peanut butter bars sold and y is the number of caramel bars sold 17. 130 peanut butter bars, 260 caramel bars

18. $V = \pi r^2 h + \frac{2}{3}\pi r^3$ 19. 28 ft

Study Guide

1. $r = \frac{C}{2\pi}$; $\frac{44}{\pi}$ in. 2. $w = \frac{P - 2l}{2}$; 34.5 cm

3. $y = \frac{8}{x + 1}$; 2 4. $y = \frac{6}{2x + 1}$; 2

5. $y = \frac{7}{4x - 1}$; 1 6. 2

Problem Solving Workshop: Mixed Problem Solving

1. a.

Population change per year	·	Number of years since 1995	+	Population in 1995
----------------------------	---	----------------------------	---	--------------------

172,000 x + 7,328,000 b. 7,672,000; 8,016,000; 8,360,000 2. a. $2x + 1.5 = 10$ b. $x = 4.25$; You can bowl 4 games with \$10.

3. a. $129 + 12(1.95x)$ b. \$269.40 4. 3.1 km/h

5. $D = 1.5x + 2y$; where D is the amount of money you have, x is the pounds of ground beef, and y is the pounds of chicken. Answers will vary.

6. $90 - 6x$; No, when $x > 15$ the answer is negative. Owing someone a negative amount of money would mean that they owe you money, which does not make sense for this problem.

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