

## 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 ft<sup>2</sup> 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. 68. 5 9. 4 10. 3 11. -5 12.  $-\frac{16}{15}$  13. 1014.  $-\frac{3}{2}$  15.  $\frac{9}{2}$  16.  $\frac{16}{3}$  17.  $\frac{11}{5}$  18. -519.  $t = \frac{d}{r}$  20.  $r = \frac{C}{2\pi}$  21.  $r = \frac{f}{P_f}$  22.  $t = \frac{f}{P_f}$ 23.  $s = \frac{2h}{\sqrt{3}}$  24.  $b = \frac{d}{h}$  25.  $w = \frac{P-2d}{2}$ 26.  $s = \frac{P}{3}$  27.  $C = \frac{5}{9}(F - 32)$ 28.  $h = \frac{2d}{b_1 + b_2}$  29.  $s = \frac{P}{4}$ ; 11 cm30.  $h = \frac{2d}{b}$ ; 4 ft

## Practice Level B

1. 5 2. 1 3. 6 4.  $-\frac{14}{5}$  5.  $-\frac{15}{2}$  6.  $\frac{3}{4}$  7. 08.  $-\frac{7}{5}$  9. 1 10. -4 11.  $\frac{21}{4}$  12. 1513.  $F = \frac{9}{5}C + 32$  14.  $b = \frac{P-2d}{2}$ 15.  $c = P - a - b$  16.  $d_1 = \frac{2d}{d_2}$ 17.  $b_1 = \frac{2d}{h} - b_2$  18.  $h = \frac{V}{\pi r^2}$  19.  $h = \frac{S}{2\pi r}$ 20.  $h = \frac{3V}{\pi r^2}$  21.  $h = \frac{d}{b}$ ; 9 cm22.  $C = \frac{5}{9}(F - 32)$ ; 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.  $\frac{1}{2}$  9. 1 10.  $\frac{3}{2}$  11.  $\frac{3}{5}$  12. -1513.  $R = \frac{S}{\pi r} - r$ ; 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.  $w = \frac{P-2d}{2}$ ; 34.5 cm3.  $y = \frac{8}{x+1}$ ; 2 4.  $y = \frac{6}{2x+1}$ ; 25.  $y = \frac{7}{4x-1}$ ; 1 6. 2Problem Solving Workshop:  
Mixed Problem Solving

1. a. 



 $\cdot$ 



 $+$

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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**RM Cervero**



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web ansi accredited procedures to provide a uniform practice in the design of steel framed buildings and other structures the intention is to provide design criteria for routine use and not to provide specific criteria for infrequently encountered problems which occur in the full range of structural design

