

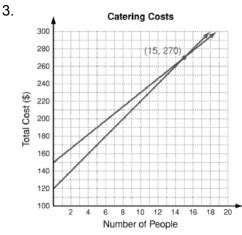
Write a system of equations to represent the situation. Then, solve the system by substitution.

- 10. The length of a rectangle is 3 more than its width. The perimeter of the rectangle is 58 cm. What are the rectangle's dimensions?
- 11. Carla and Benicio work in a men's clothing store. They earn commission from each suit and each pair of shoes they sell. For selling 3 suits and one pair of shoes, Carla has earned \$47 in commission. For selling 7 suits and 2 pairs of shoes, Benicio has earned \$107 in commission. How much do the salespeople earn for the sale of a suit? for the sale of a pair of shoes?

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Reading Strategies

- 1. number of people; total cost
- 2. y = 10x + 120; y = 8x + 150



- 4. (15, 270)
- 5. For 15 people, the total cost will be \$270 with both catering companies.

LESSON 6-2

Practice A

- 1. 3*x*; 3*x*; *x*; 2*x*; 2; 2; *x*; 2; 2; 2; 2; 6; 2; 6
- 2. x 3; x 3; 4x; 4x; 4; 4; x; 7; 7; 7; 7; 4; 7; 4
- 3. (3, 12) 4. (2, 0)
- 5. (2, -5)
- 6. a. $\begin{cases} y = 20x + 45 \\ y = 26x + 30 \end{cases}$
 - b. 2.5
 - c. \$95

Practice B

1. (-1, -3)	2. (3, -1)
3. (2, 7)	4. (1, -4)
5. (5, -2)	6. (3, -2)
7. (1, –2)	8. (-1, -2)

- 9. (4, 9)
- 10. $\begin{cases} I = w + 3 \\ 2I = 2w + 58 \end{cases}$;13 cm by 16 cm
- 11. $\begin{cases} 3s + 1p = 47 \\ 7s + 2p = 107 \end{cases}$; suit:\$13; pair of shoes: \$8

Practice C

1. (2, -4)	2. (3, -1)
3. (0, 8)	4. (-2, -1)
5. $\left(\frac{1}{2},-2\right)$	6. (-6, -2)
7. (0.8, 0.2)	8. (8, -12)
9. (6, -8)	10. 11 and 28
11. 12 quarters	12. \$12.00
Review for Mastery	
1 (2 3)	2(70)

1. (2, 3)	2. (7, 9)
3. (-4, 1)	4. (17, 7)
5. (3, 6)	6. (-1,7)

Challenge

x = 3; y = -1, z = 4
 x = -1; y = 4, z = -3
 x = 2; y = 8, z = -5
 x = -2; y = 13, z = 4

Problem Solving

- 1. 3 quarters, 5 dimes
- 2. 3 months;
 - \$155
- 3. 12 turkey burgers,
 9 beef hamburgers
- 4. used CD \$4.50, used DVD \$6.50
- 5. B 6. H
- 7. A 8. H

Reading Strategies

- 1. y = 5 x or y = -x + 5
- 2. The first equation is already solved for *y*.
- 3. The solution of a system must satisfy both equations.
- 4. (6, 4) 5. (-3, 5)