

# Chapter 2 Knowledge Check

Write the letter for the correct answer in the blank at the right of each question.

- What is 35% of 60?  
 A. 7                      B. 12                      C. 21                      D. 28                      1. \_\_\_\_\_
- What is 112% of 50?  
 F. 56                      G. 52                      H. 48                      I. 6                      2. \_\_\_\_\_
- 3% of 120 is what number?  
 A. 3.6                      B. 4.4                      C. 9.5                      D. 40                      3. \_\_\_\_\_
- Kaitlyn made 85% of the 60 free throws she attempted. How many free throws did Kaitlyn make?  
 F. 17                      G. 25                      H. 51                      I. 60                      4. \_\_\_\_\_

Which is the best estimate for each of the following?

- 23% of 36  
 A. 3                      B. 6                      C. 9                      D. 15                      5. \_\_\_\_\_
- 0.8% of 503  
 F. 10                      G. 7.5                      H. 4                      I. 1                      6. \_\_\_\_\_

Which equation and solution represents each situation?

- What number is 16% of 46?  
 A.  $n = 16 \cdot 46$ ; 736  
 B.  $16 = n \cdot 46$ ; 34.8  
 C.  $46 = n \cdot 0.16$ ; 287.5  
 D.  $n = 0.16 \cdot 46$ ; 7.4                      7. \_\_\_\_\_
- 20% of what number is 30?  
 F.  $n = 0.2 \cdot 30$ ; 6  
 G.  $30 = 0.2 \cdot n$ ; 150  
 H.  $30 = n \cdot 20$ ; 1.5  
 I.  $n = 30 \cdot 2.0$ ; 60                      8. \_\_\_\_\_
- What number is 76% of 140?  
 A.  $n = 76 \cdot 140$ ; 10,640  
 B.  $76 = n \cdot 140$ ; 0.5  
 C.  $n = 0.76 \cdot 140$ ; 106.4  
 D.  $n = 1.40 \cdot 0.76$ ; 1.1                      9. \_\_\_\_\_

## Chapter 2 Knowledge Check *(continued)*

10. While eating dinner, Marian ate 25% of the apple slices she had in her bag. There were 20 apple slices in her bag. How many apple slices did Marian eat?

F. 5

G. 7

H. 9

I. 10

10. \_\_\_\_\_

11. Adalia ate lunch and wanted to leave her waitress a 15% tip. Her meal cost \$8.95. How much money should Adalia leave for the tip?

11. \_\_\_\_\_

**Find each percent of change. Round to the nearest whole percent if necessary. State whether the percent of change is an *increase* or *decrease*.**

12. Wyatt bought a pair of shoes for \$72. The next week he noticed that the price for the same pair of shoes was now \$87. Find the percent of change.

12. \_\_\_\_\_

13. 55 to 35

13. \_\_\_\_\_

14. 170 to 210

14. \_\_\_\_\_

**Find the simple interest paid to the nearest cent for each principal, interest rate, and time.**

15. \$1,450, 2.5%, 2 years

15. \_\_\_\_\_

16. \$390, 3%, 5 years

16. \_\_\_\_\_

17. Eber bought a new pair of baseball cleats for \$64.95. The sales tax is 5.5%. What is the total cost that Eber will pay?

17. \_\_\_\_\_

18. Mr. Jamison bought a toaster oven that was originally priced at \$89. He received a 20% discount. What is the sale price of the toaster oven?

18. \_\_\_\_\_

19. Winona got her hair cut for \$21. She left a 15% tip for the hair stylist. What is the total amount of money Winona paid?

19. \_\_\_\_\_