

3 Chapter 3 Test, Form 2A

SCORE _____

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

- Name the property of equality that is used to solve $-8x = -72$.
A. addition B. subtraction C. distributive D. division 1. _____
- Translate *the difference of a number and 7 is -8* into an equation.
A. $7 - n = -8$ B. $\frac{n}{7} = -8$ C. $n - 7 = -8$ D. $n - (-7) = -8$ 2. _____
- Rewrite $(2 + 6)5$ using the Distributive Property.
A. $2 \cdot 5 \times 6 \cdot 5$ B. $2 \cdot 5 + 2 \cdot 6$ C. $2 \cdot 5 + 6 \cdot 5$ D. $2 \cdot 5 + 6$ 3. _____
- Which expression is equivalent to $-4(m - 3)$?
A. $-4m - 12$ B. $4m + 12$ C. $-4m - 7$ D. $-4m + 12$ 4. _____

Simplify each expression.

- $3x - 4y + 3x + 2y$
A. $-2y$ B. $6x - 2y$ C. $6x + 2y$ D. $-6x - 2y$ 5. _____
- $2(x + 4) + 3x$
A. $5x + 8$ B. $2x + 4$ C. $5x + 4$ D. $2x + 8$ 6. _____

Solve each equation.

- $n + 5 = -13$
A. -8 B. -18 C. 8 D. 18 7. _____
- $23 = 15 + h$
A. 8 B. -8 C. 32 D. 38 8. _____
- $k - 35 = -16$
A. -51 B. 51 C. 19 D. -19 9. _____
- Ryan studied x hours for his history exam. His twin brother Rick studied 2 hours more. Which expression represents how long Rick studied?
A. $x + 2$ B. $2x$ C. $x - 2$ D. $x + (-2)$ 10. _____
- Which expression has a constant of 3?
A. $3x + 3y$ B. $3m + 2$ C. $2y + y$ D. $3a + 3$ 11. _____
- Find the perimeter of a square that is 12 centimeters on each side.
A. 24 cm B. 48 cm C. 60 cm D. 144 cm 12. _____
- The area of a rectangle is 168 square feet. If its length is 14 feet, what is its width?
A. 14 ft B. 70 ft C. 64 ft D. 12 ft 13. _____



3 Chapter 3 Test, Form 2A (continued)

14. How far does a jet travel if it flies 530 miles per hour for 2 hours?
 A. 265 mi B. 1020 mi C. 1060 mi D. 530 mi 14. _____

15. How long will it take a plane to fly 310 miles at 124 miles per hour?
 A. 2 h B. 2.5 h C. 3 h D. 3.5 h 15. _____

Solve each equation.

16. $-3q = 54$
 A. 18 B. -17 C. -18 D. -162 16. _____

17. $\frac{g}{-7} = -14$
 A. 98 B. -98 C. -21 D. 2 17. _____

18. Name the first step in solving $2x - 5 = 37$.
 A. Add 5 to each side. B. Subtract 5 from each side.
 C. Divide each side by 2x. D. Subtract 2x from each side. 18. _____

Solve each equation.

19. $3c + 5 = 23$
 A. 3 B. 7 C. 18 D. 6 19. _____

20. $-56 = 8 - 2w$
 A. 32 B. 128 C. -32 D. 24 20. _____

21. $\frac{m}{4} - 6 = 15$
 A. 60 B. 9 C. 84 D. 36 21. _____

22. $d - 4d + 6 = 33$
 A. -9 B. 8 C. -8 D. 9 22. _____

23. A racquetball court has an area of 800 square feet. Its width is 20 feet. What is the length of the racquetball court?
 A. 60 ft B. 16,000 ft C. 380 ft D. 40 ft 23. _____

24. Elisa has \$55 and saves an additional \$12 per week. Which equation can be used to find how many weeks it will take until she has \$343?
 A. $343 + 12w = 55$ B. $55 + 12w = 343$
 C. $12w - 55 = 343$ D. $55 + w = 343$ 24. _____

25. Refer to Question 24. How long will take Elisa to save \$175?
 A. 10 weeks B. 24 weeks C. 19 weeks D. 21 weeks 25. _____

Bonus A rectangle whose length is 5 inches has an area of 20 square inches. What is the perimeter of the rectangle? B: _____