

Please note: The chapter tests are not multiple choice!

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

1. Write an algebraic expression for *the sum of a number and 8*.
 A. $8x$ B. $x - 8$ C. $x + 8$ D. $x \div 8$ 1. _____
2. Write an algebraic expression for *27 decreased by a number*.
 F. $27 + m$ G. $27 - m$ H. $m - 27$ J. $\frac{27}{m}$ 2. _____
3. Write a verbal expression for $19a$.
 A. the sum of 19 and a number C. the quotient of 19 and a number
 B. the difference of 19 and a number D. the product of 19 and a number 3. _____
4. Write a verbal expression for $x + y$.
 F. the sum of x and y H. the difference of x and y
 G. the quotient of x and y J. the product of x and y 4. _____
5. Evaluate $6(8 - 3)$.
 A. 45 B. 30 C. 11 D. 66 5. _____
6. Evaluate $2k + m$ if $k = 11$ and $m = 5$.
 F. 32 G. 216 H. 27 J. 18 6. _____
7. Find the solution of $x + 4 = 7$ if the replacement set is $\{1, 2, 3, 4, 5\}$.
 A. 1 B. 3 C. 4 D. 2 7. _____
8. Find the solution set for $x \div 2 \leq 3$ if the replacement set is $\{1, 2, 3, 4, 5, 6, 7\}$.
 F. $\{1, 2, 3, 4, 5, 6\}$ H. $\{1, 2, 3, 4, 5\}$
 G. $\{6, 7\}$ J. $\{7\}$ 8. _____
9. Name the property used in $n + 0 = 7$.
 A. Multiplicative Inverse Property C. Additive Identity Property
 B. Substitution Property D. Multiplicative Identity Property 9. _____
10. Evaluate $13 + 6 + 7 + 4$.
 F. 2184 G. 29 H. 20 J. 30 10. _____
11. Simplify $7b + 2b + 3c$.
 A. $12bc$ B. $9b + 3c$ C. $7b + 5c$ D. $5b + 3c$ 11. _____
12. Simplify $5(2g + 3)$.
 F. $10g + 3$ G. $7g + 3$ H. $10g + 15$ J. $7g + 8$ 12. _____
13. Evaluate $4 \cdot 1 + 6 \cdot 16 + 0$.
 A. 100 B. 0 C. 8 D. 185 13. _____
14. Which of the following uses the Distributive Property to determine the product $12(185)$?
 F. $12(100) + 12(13)$ H. $12(18) + 12(5)$
 G. $12(1) + 12(8) + 12(5)$ J. $12(100) + 12(80) + 12(5)$ 14. _____

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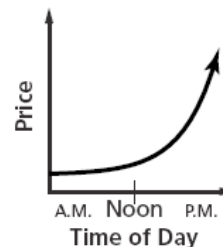
15. Identify the hypothesis in the statement *If it is Monday, then the basketball team is playing.*
- A. The basketball team is playing. C. It is not Monday.
 B. It is Monday. D. There is no hypothesis. 15. _____

16. Choose the numbers that are counterexamples for the following statement.
For all numbers a and b , $\frac{a}{b} \leq 1$.
- F. $a = 2, b = 4$ G. $a = 4, b = 5$ H. $a = 18, b = 2$ J. $a = 9, b = 10$ 16. _____

17. Name the set or sets of numbers to which the real number $\frac{2}{9}$ belongs.
- A. rational numbers
 B. irrational numbers
 C. natural numbers, rational numbers
 D. natural numbers, irrational numbers 17. _____





18. The length of the side of a square can be found by taking the square root of the area of the square. If a square has an area of 100 square inches, what is the length of one side of the square?
- F. 50 inches G. 25 inches H. 20 inches J. 10 inches 18. _____

19. Which statement best describes the graph of the price of one share of a company's stock shown at the right?



- A. The price increased more in the morning than in the afternoon.
 B. The price decreased more in the morning than in the afternoon.
 C. The price increased more in the afternoon than in the morning.
 D. The price decreased more in the afternoon than in the morning. 19. _____

20. Identify the graph that represents the following statement.
The accident rate for middle-aged automobile drivers is lower than the rate for younger and older drivers.

- A.  B.  C.  D.  20. _____