

Algebra 1 (chapter one revision)

Student's Name :

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

1. Write an algebraic expression for *nine times of the square of a number*.
 A $9 + x^2$ B $9 - x^2$ C $9x^2$ D $x^2 - 9$ 1. _____

2. Write a verbal expression for $2n + 7$.
 F the product of 2, n , and 7 H 7 less than a number times 2
 G 7 more than twice a number J 7 more than n and 2 2. _____

3. Evaluate $6 + 2 \cdot 3 - 1$.
 A 23 B 10 C 16 D 11 3. _____

4. Evaluate $2(11 - 5) + 9 \div 3$.
 F 18 G 15 H 30 J 11 4. _____

5. Evaluate $x^2 + xyz$ if $x = 3$, $y = 5$, and $z = 4$.
 A 69 B 63 C 85 D 21 5. _____

6. Which equation illustrates the Multiplicative Inverse Property?
 F $0 \cdot 16 = 0$ H $3 \cdot \frac{1}{3} = 1$
 G $1(48) = 48$ J $9(1 + 0) = 9(1)$ 6. _____

7. Evaluate $29 \cdot 1 + 2(20 \div 4 - 5)$.
 A 0 B 30 C 29 D 28 7. _____

8. Simplify $r^2 - 2r^3 + 3r^2$.
 F $4r^2 - 2r^3$ G $2r$ H $3r^2 - 2r^3$ J $4r^2$ 8. _____

9. Simplify $3(2x + 4y - y)$.
 A $5x + 6y$ B $6x + 9y$ C $6x + 3y$ D $5x + 11y$ 9. _____

10. Use the Distributive Property to find $6(14 + 7)$.
 F 91 G 126 H 42 J 56 10. _____

11. Simplify $2(a + 3b) + 3(4a + b)$.
 A $6a + 6b$ B $14a + 9b$ C $14a + 4b$ D $6a + 7b$ 11. _____

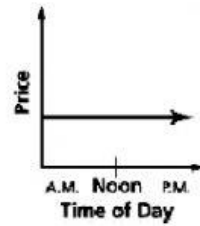
12. Evaluate $3\frac{2}{5} + 7 + 4\frac{1}{5}$.
 F $7\frac{3}{2} + 7$ G $14\frac{3}{10}$ H $84\frac{3}{5}$ J $14\frac{3}{5}$ 12. _____

13. Find Mack's debt-to-income ratio if his monthly expenses are \$2850 and his monthly salary is \$4000.
 A 0.2875 B 0.35 C 0.7125 D 1.45 13. _____

14. Juanita is buying a cover for her motorcycle which has a length of 7.5 feet. If the covers are only sold in whole foot increments, then what size cover should Juanita buy?
 F 6.5-ft G 7-ft H 7.5-ft J 8-ft 14. _____

15. Which statement best describes a daily stock price?

- A The price increased.
- B The price decreased.
- C The price did not change.
- D The price increased then decreased.

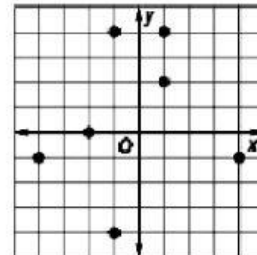


15. _____

For Questions 16 and 17, use the graph.

16. What is the domain of the relation?

- F $\{-4, -1, 0, 2, 4\}$
- H $\{-4, -2, -1, 0, 1, 2, 4\}$
- G $\{-4, -2, -1, 1, 4\}$
- J $\{-1, 1\}$



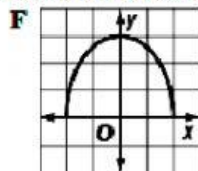
16. _____

17. Which is a true statement about the relation?

- A The relation is a linear function.
- B The value of x increases as y decreases.
- C The value of x increases as y increases.
- D The relation is not a function.

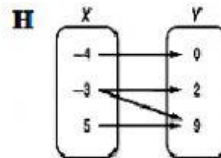
17. _____

18. Determine which relation is *not* a function.



G

x	y
-2	0
0	0
1	2
3	1



J

x	y
-4	0
-3	9
5	2
6	9

18. _____

For Questions 19 and 20, use the graph.

19. Interpret the y -intercept of the graph.

- A 0 bracelets cost about \$30.
- B 1 dozen bracelets cost about \$30.
- C 28 dozen bracelets cost \$0.
- D Each dozen bracelets costs about \$5.



19. _____

20. Interpret the end behavior of the function.

- F The total cost decreases.
- G The cost per dozen decreases.
- H The total cost increases.
- J The cost per dozen increases.

20. _____

Teacher
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