

Chapter 1 Test, Form 1

SCORE _____

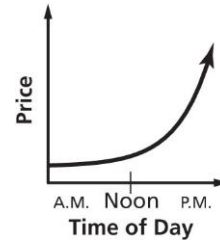
Write the letter for the correct answer in the blank at the right of each question.

- 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. **C**
- Write an algebraic expression for *27 decreased by a number*.
 F $27 + m$ G $27 - m$ H $m - 27$ J $\frac{27}{m}$ 2. **G**
- 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. **D**
- 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. **F**
- Evaluate $6(8 - 3)$.
 A 45 B 30 C 11 D 66 5. **B**
- Evaluate $2k + m$ if $k = 11$ and $m = 5$.
 F 32 G 216 H 27 J 18 6. **H**
- Name the property used in $n + 0 = 7$.
 A Multiplicative Inverse Property C Additive Identity Property
 B Substitution Property D Multiplicative Identity Property 7. **C**
- Evaluate $13 + 6 + 7 + 4$.
 F 2184 G 29 H 20 J 30 8. **J**
- Simplify $7b + 2b + 3c$.
 A $12bc$ B $9b + 3c$ C $7b + 5c$ D $5b + 3c$ 9. **B**
- Simplify $5(2g + 3)$.
 F $10g + 3$ G $7g + 3$ H $10g + 15$ J $7g + 8$ 10. **H**
- Evaluate $4 \cdot 1 + 6 \cdot 16 + 0$.
 A 100 B 0 C 8 D 185 11. **A**
- 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 $12(100) + 12(80) + 12(5)$ 12. **J**
- 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 13. **B**
- A car rental company charges a rental fee of \$20 per day in addition to a charge of \$0.30 per mile driven. How much does it cost to rent a car for a day and drive it 25 miles?
 F \$45.30 G \$20.30 H \$27.50 J \$26.00 14. **H**

Chapter 1 Test, Form 1 (continued)

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

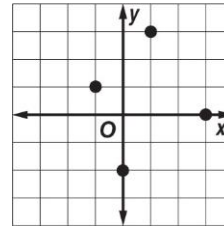
- A The price increased more in the morning than in the afternoon.
- B The price decreased more in the morning than in the afternoon.
- C The price increased more in the afternoon than in the morning.
- D The price decreased more in the afternoon than in the morning.



15. C

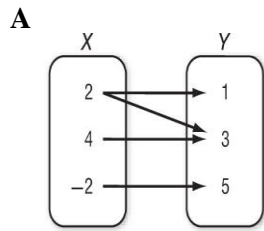
16. What is the domain of the relation?

- F $\{-1, 0, 1, 3\}$
- G $\{-2, 0, 1, 3\}$
- H $\{-2, -1, 0, 1, 2, 3\}$
- J $\{0, 1, 2, 3\}$



16. F

17. Determine which relation is a function.



C

x	3	4	4	5
y	-1	2	3	4

- B $y = \frac{1}{5}x + 2$
- D $\{(3, 0), (-2, -2), (7, -2), (-2, 0)\}$

17. B

18. If $h(r) = \frac{2}{3}r - 6$, what is the value of $h(-9)$?

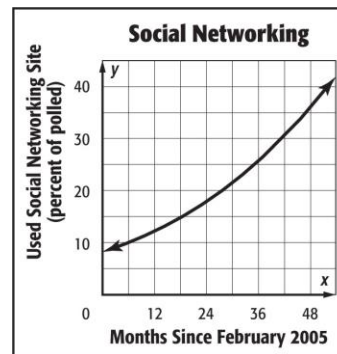
- F 12
- G 0
- H $-6\frac{2}{3}$
- J -12

18. J

For Questions 19 and 20, use the graph.

19. Interpret the y-intercept of the graph.

- A All those polled used a social networking site 8 months after February 2005.
- B About 8% of those polled used a social networking site in February 2005.
- C No one used a social networking site in February 2005.
- D There were 8 social networking sites in February 2005.



19. B

20. Interpret the end behavior of the function in terms of social networking.

- F expected to decrease
- G expected to increase
- H expected to level off at 55%
- J expected to level off at 8%

20. G

Bonus Simplify $(4x + 2)3$.

B: 12x + 6