Name _____ Class _____ Date _____

Cumulative Review

Chapter 1

Multiple Choice

For Exercises 1–10, choose the correct letter.

1. Which property is illustrated by $(3 + 5) + 7 = 3 + (5 + 7)$?

A. Additive Identity
B. Associative Property of Addition
C. Commutative Property of Addition
D. Distributive Property

2. Which algebraic expression represents the statement "4 more than the product of 6 and a number"?

F. $4n + 6$
G. $6 - 4n$
H. $4 - 6n$
I. $6n + 4$

3. What is the value of $-9 + (2^3 - 3^2)$?

A. -26 **B.** -10 **C.** -8 **D.** -4

4. What is the value of $\sqrt{49}$?

F. $\sqrt{7}$ **G.** 7 **H.** 14 **I.** 49

5. What is the order of the numbers $\sqrt{12}$, -3.5, $\frac{5}{3}$, $-\frac{2}{3}$ from least to greatest?

A. $\sqrt{12}$, -3.5, $\frac{5}{3}$, $-\frac{2}{3}$
B. $\sqrt{12}$, $\frac{5}{3}$, $-\frac{2}{3}$, -3.5
C. -3.5, $-\frac{2}{3}$, $\sqrt{12}$, $\frac{5}{3}$
D. -3.5, $-\frac{2}{3}$, $\frac{5}{3}$, $\sqrt{12}$

6. Which ordered pair is not a solution of $y = 2x + 1$?

F. $(3, 7)$ **G.** $(0, 1)$ **H.** $(-1, 1)$ **I.** $(-3, -5)$

7. Which expression is equivalent to $-3.2(2x - 2.1)$?

A. $-6.4x + 6.72$
B. $-6.4x - 6.72$
C. $6.4x + 6.72$
D. $-6.4x + 2.1$

8. Toby purchased 5 tickets online for a show. The tickets cost \$12 each plus there was a \$3.50 service fee for the order. How much money did Toby spend for the tickets?

F. \$15.50 **G.** \$51.50 **H.** \$60 **I.** \$63.50

9. What is the value of $3^3 - (4^2 - 2^3)$?

A. -1 **B.** 7 **C.** 19 **D.** 35

10. Which expression is equivalent to $4(2x + 1) - (-6x)$?

F. $14x + 4$ **G.** $8x - 2$ **H.** $2x + 4$ **I.** $-14x - 4$

Name _____ Class _____ Date _____

Cumulative Review (continued)

Chapter 1

11. In the absence of predators, the rabbit population in a forest has grown to 5^6 over the past 5 years. What is the rabbit population in the forest?

12. Cherie is laying square tiles on her square kitchen floor. She buys the tiles for \$2 per square foot tile. If her total estimated cost for the tiles is \$288, what is the length of her floor in feet?

13. Simplify $8^2 \div 4 + 3(6 - 3) + 2^3$.

14. What is the value of $3 + |x - 2|$ for $x = -3$?

15. Evaluate $x(y - z)^2$ for $x = -1$, $y = 5$, and $z = -3$.

16. Write an equation for the sentence: the difference of $6n$ and -5 is -13.

17. **Vocabulary** What type of number can be written in the form $\frac{a}{b}$, where a and b are integers, and $b \neq 0$?

18. Simplify $(x^2 + 6) - (3x^2 - 2x - 5)$.

19. What is the solution of the equation $9x + 12 = 39$?

20. Jack is taking his family to the fair. He plans to take \$5 for each admission ticket plus \$35 for food. Write an equation that models the amount of money Jack takes to the fair.

21. What is the value of the expression $(-7)(3) - (5)(-3)$?