

Ch 6 Review

Indicate the answer choice that best completes the statement or answers the question.

- ___ 1. The volume of a certain cube can be found using the expression 5^3 . What is 5^3 written as a product of the same factor?
- a. 5×3 b. $3 \times 3 \times 3 \times 3 \times 3$
c. 3×5 d. $5 \times 5 \times 5$

What is the value of each expression?

- ___ 2. $21 - 3^2 + 2$
a. 14 b. 16
c. 20 d. 24
- ___ 3. $4 \times 3 + 9 \times 8$
a. 59 b. 84
c. 168 d. 384
- ___ 4. What is the value of cd if $c = 9$ and $d = 8$?
a. 98 b. 89
c. 72 d. 17
- ___ 5. What is the value of $s + t - u$ if $s = 12$, $t = 8$, and $u = 20$?
a. 0 b. 10
c. 15 d. 18

Which is the correct algebraic expression for each phrase?

- ___ 6. 10 dollars less than Caitlin
a. $c + 10$ b. $c - 10$
c. $10 - c$ d. $10c$
- ___ 7. twelve inches longer than the width
a. $12w$ b. $12 - w$
c. $w + 12$ d. $12 \div w$
- ___ 8. Which property is illustrated by the statement $6 \cdot 4 = 4 \cdot 6$?
a. Associative b. Commutative
c. Distributive d. Identity
- ___ 9. Which of the following is equivalent to $2 \cdot (4 \cdot 3)$?
a. $2 + (4 + 3)$ b. $2 \cdot (6 \cdot 4)$
c. $(2 \cdot 4) \cdot 3$ d. 8
- ___ 10. Which of the following is the factored form of the expression $18 + 12$?
a. $2(9 + 6)$ b. $3(6 + 4)$
c. $6(3 + 2)$ d. $9(2 + 3)$

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Which expression results from using the Distributive Property?

- ___ 11. $6(x + 4)$
a. $6x + 10$ b. $6x + 4$
c. $24x$ d. $6x + 24$

What is the simplified form of each expression?

- ___ 12. $5(4x)$
a. $9x$ b. $5(4) + 5(x)$
c. $9 + x$ d. $20x$

- ___ 13. $7(2x + 6y)$
a. $14x + 42y$ b. $56x$
c. $56xy$ d. $14x + 42$

What is the factored form of each expression?

- ___ 14. $20x + 35y$
a. $4x + 7y$ b. $5xy(4 + 7)$
c. $5(4x + 7y)$ d. $(20 + 35) \cdot (x + y)$

Name: _____ Class: _____ Date: _____

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Answer Key

1. d
2. a
3. b
4. c
5. a
6. b
7. c
8. b
9. c
10. c
11. d
12. d
13. a
14. c