Ch. 5 Review (Expressions)

1. What is the value of the expression $f^2 + 5$ if f = 3?

2. What is the value of 9x - 4y if x = 3 and y = 2?

- 3. Which property of multiplication is shown by the equation $14 \cdot y \cdot 1 = 14y$?
 - A. Associative
 - B. Multiplicative Property of Zero
- C. Commutative
- D. Multiplicative Identity
- 4. What are the next three terms in the sequence 3, 6, 9, 12, ...?

5. What are the next three terms in the sequence 2.0, 3.5, 5.0, 6.5, ...?

6. What is the next term in the pattern 0.4, 0.8, 1.2, 1.6, ...?

7. What is the value of the expression 3(2-7)?

the expression
$$3(2-7)$$
:
$$3(2-7) = 3(2) - 3(7) = 6 - 2(= -15)$$

8. Use the distributive property to simplify the following:
$$-3(x+10)$$

$$-3 \times + (-3)(10) = -3 \times -30$$

9. Simplify 7y + 15 - 7y - 8.



10. Simplify x + 6 - 3x - 8.

11. Add (12x + 5) + (3x - 7).

12. Subtract (3x + 5) - (x + 2).

$$\left[2x+3\right]$$

13. In the expression 10a + 4, identify the coefficient.



14. Use the Distributive Property to write -4(7-1) as an equivalent expression. What is the value of the expression?

$$-4(7) - (-4)(1) = -28 + 4 = (-24)$$

15. Add (-2x + 4) + (4x + 6).

16. Subtract (-x-3) - (5x+2).

17. Simplify -2(x+5)

18. What is the value of
$$11 + 3(9 - 6) - 4$$
?
$$11 + 3(9) - 3(6) - 4 = 11 + 27 - 18 - 4 = 16$$

19. Simplify 2x + 1 - x + 2.

$$(X+3)$$

20. What is the value of 6a + 2b if a = 1 and b = 2?

$$6(1) + 2(2) = (10)$$

21. What is the value of 12d - 7c if d = 2 and c = 3?

$$12(2)-7(3) = 24-21 = (3)$$

- 22. Evaluate $\frac{4r}{s}$ if r = 9 and s = 2. $\frac{4(9)}{2} = \frac{36}{2} = \frac{18}{2}$
- 23. Name the multiplication property shown the equation $12 \cdot m = m \cdot 12$.
 - A. Associative
 - B. Multiplicative Property of Zero
- C. Commutative
- D. Multiplicative Identity