7.1 Expanding Algebraic Expressions **Name: _____**

Use the distributive property to expand the expression.
Use the distributive property to write an expression as an equivalent algebraic expression.

1. $4(d + 2)$

2. $3(x - 7)$

3. $-1(2 - y)$

4. $5(1 - b)$

5. $-3(w - 10)$

6. $12(n + 2)$

7. $5(11q - 7r)$

8. $-3(10s + 9)$

9. $6(2f + 9g)$

10. $-7(3f - 6)$

11. $2(-7 + 8m)$

12. $2(4 - 7b)$

13. Circle the expression that shows a sum or difference equivalent to $-0.9(3x - 2.6)$

a. $-2.7x - 2.34$
b. $-2.7x + 23.4$
c. $-2.7x + 2.34$
d. $-2.7x - 23.4$

14. Write the expression in expanded form. $4.2a(-5b - 3)$

15. You charge $2.50 for each child you babysit. You also earn an activity fee of $2.75 for each hour. You babysit an average of 10 hours a month. Write an expression using the product of two factors to find out how much you will earn on average each month for any number or c children.

16. Simplify the expression you wrote number 15.

17. Game Stop is advertising $3 off the price of used video games. You decide to buy 4 games. Let p represent the price of each game. Write an expression to show much you would pay for the video games.

18. Simplify the expression you wrote in number 17.