Name: _____ Period: _____ Date: _____

Writing and Evaluating Expressions Assignment

Write an algebraic expression for the word expression.

1. The quotient of y and 14

2. The sum of 15 and the product of 5 and z

3. Twice a number increased by 13.

4. The sum of 7 and the product of 2 and x

5. 16 decreased by x

6. A number x divided by 4

Write the word expression for each algebraic expression.

7. $x - 6$

8. $c - 4$

9. $k^3 + 5$

10. $3k^2$

11. $2a + 6$

12. $\dfrac{x + 4}{3}$ or $(x + 4) \div 3$

Write an expression to match the words.

13. Alan had 9 fish and bought some more.

14. Represent the total number of calories in x peanuts and y potato chips if each peanut contains 5 calories and each potato chip contains 10 calories.

15. Karen spent $300 on jacket and jeans. If she spent y dollars for the jacket, represent the amount she spent for the jeans.

16. If a plane travel **600** kilometers per hour, represent the distance it will travel in k hours.

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Writing and Evaluating Expressions Assignment

Use a bar model to represent each expression.

17. $x + 5$

18. $\dfrac{y}{4}$

Evaluate each expression for the given values of the variable.

19. $65 - (x - y) =$

$x = 25 \qquad y = 12$

20. $5k + j^2(72 - 3k) =$

$k = 15 \qquad y = 10$

21. $\dfrac{2x + 3y}{10} - (4x - 3y) =$

$x = 15 \qquad y = 10$

22. $3a + 4b - (a + b)^2 =$

$a = 10 \qquad b = 6$

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