Name: _____ Period: _____ Date: _____

Variables and Expressions Assignment

Find the value of each numerical expression. Follow the order of operations when finding each value.

1. $25 \div 5 - 4 =$　　　　**2.** $216 \div 6 + 4 * 2 =$　　　　**3.** $144 \div 12 + (12 - 8) =$

Find the terms, constant/s and coefficient/s for each expression.

4. $6x + 4y + 123 =$　　**5.** $k + 7l + 2 =$　　**6.** $12 + z =$

Terms:	**Terms**:	**Terms**:
Variables:	**Variables**:	**Variable**:
Constant:	**Constant**:	**Constant**:
Coefficients:	**Coefficients**:	**Coefficient**:

7. $x + y =$　　**8.** $12a + b + 13 =$　　**9.** $g + 15j + 13z =$

Terms:	**Terms**:	**Terms**:
Variables:	**Variables**:	**Variable**:
Constant:	**Constant**:	**Constant**:
Coefficients:	**Coefficients**:	**Coefficients**:

Write an algebraic expression for each verbal phrase.

10. x increased by 8

11. the product of x and 10

12. the quotient of 24 and 6

13. z decreased by 23

14. The sum of n and 12, divided by 5

15. 6 more than 6 times a number

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Variables and Expressions Assignment

Write each as a verbal expression.

16. $19 - 14$

17. $\dfrac{x}{2}$

18. $x \div 14$

19. $2a$

20. $a + 122$

21. $12k$

Evaluate each expression using the values given.

22. $2x + 3y$ *when* $x = 8$ *and* $y = 4$

23. $a - 4b$ *when* $a = 17$ *and* $b = 3$

24. $12x - (y + 10)$ *when* $x = 10$ *and* $y = 16$

25. $\dfrac{121}{x} - \dfrac{16}{y}$ *when* $x = 11$ *and* $y = 8$

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Variables and Expressions Assignment

Write an algebraic expression for each problem.

26. Jessica had x books. Then she went to a book sale and bought 12 more books. Choose the expression that shows how many books Jessica has now.

27. There were x birds on the tree. 22 of the birds flew away. Choose the expression that shows how many birds are on the tree now.

28. John has y cookies. He splits them evenly among 13 bags. Choose the expression that shows how many cookies are in each bag.