

Variables and Expressions

 Guided Notes

Sample Problem 2: Find the terms, constant/s and coefficient/s for each expression.

a. $2x - 10$

Terms:

Variable:

Constant:

Coefficient:

b. $x + 4y + 32$

Terms:

Variable:

Constant:

Coefficients:

Expressions are like instructions that tell you what you have to do to a number or variable.

Expressions are used to write word problems in math terms.

Sample Problem 3: Write an algebraic expression for each verbal phrase.

a. A number minus 10

b. The product of a number and 6

c. 12 less than a number

d. 16 plus a number

e. The sum of n and 8, divided by 4

f. 4 more than 2 times a number

Substituting Values into Algebraic Expressions

To evaluate an algebraic expression, you substitute values for the variables and then simplify the resulting numerical expression.

Sample Problem 4: Evaluate each expression using the values given.

a. $x + y$ when $x = 2$ and $y = 6$

b. $3x - 4y$ when $x = 7$ and $y = 1$

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c. $10a - 4(2 + b)$
when $a = 7$ and $b = 2$

Sample Problem 5: If $a = 8$, $b = 3$, and $c = 6$, evaluate the following by substituting these values into the following expressions.

a. $a + 4b \div c =$

b. $4a + 2bc - 3 =$

c. $\frac{3a + 2b}{c} =$