Name	Per	
	Math6	

Variables and Expressions



Objective: You will learn the difference between a variable, constant, and coefficient. You will also learn how to evaluate expressions.



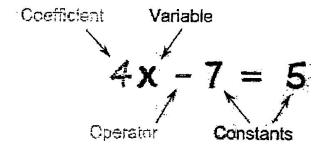
Terms:

Expression: is the mathematical phase involving constants, variables, coefficients, and operations.

Variable- is a quantity that can change or vary. In an algebraic expression, the variable is often written as a letter.

Constant- is a quantity that does not change. In an algebraic expression, the constant is/are the number(s).

Coefficient- is a number used to multiply a variable. For example, in the expression: 2m + 5, 2 is the coefficient.





If you know the values of the variables, you can evaluate the expression by replacing the variable with each value. This is known as substituting a value for a variable.



Example #1: Evaluate the expression for x = 1, 2, and 3

This expression is known as an addition expression.

$$8 + x$$

Step 1: Substitute 1 for x
$$8 + 1 = 9$$

Step 2: Substitute 2 for x

$$8 + 2 = 10$$

Step 3: Substitute 3 for x

$$8 + 3 = 11$$

Therefore, 8 + x; 9, 10, and 11



Circle the variable.

Star the constant.

Box the operation.

Underline the coefficient.



Example #2: Evaluate the expression for x = 3, 4, and 5

X	12-x	5x
3	9	15
4	8	
5		25

~ 1 .1 . 1 . 1

Circle the variable.

Star the constant.

Box the operation.

Underline the coefficient.





YOU GOT THIS:

1. Evaluate the following multiplication equation for x = 3, 5, and 6

4x - 3

Circle the variable.

Star the constant.

Box the operation.

Underline the coefficient.

2.

x	$\frac{28}{x}$
4	
7	
28	

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Circle the variable.

Star the constant.

Box the operation.

Underline the coefficient.