

Key

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

Match the vocabulary to the correct definition. Write the answer in the blank on the left side of the paper.

- |          |                         |   |
|----------|-------------------------|---|
| <u>E</u> | 1. Algebraic Expression | A. Each part of an expression separated by + or -.  |
| <u>C</u> | 2. Coefficient          | B. A number that stands by itself.  |
| <u>B</u> | 3. Constant             | C. A number that does not stand by itself. It is attached to the variable.  |
| <u>A</u> | 4. Term                 | D. A letter that stands for a particular numerical value.   |
| <u>D</u> | 5. Variable             | E. A number sentence without an equal sign; has at least one term and one operation; algebraic expressions contain one or more variables. |

Identify each part of the algebraic expression as the coefficient, constant, or variable.

1.  $4x - 12$

4 is a(n) Coefficient

x is a(n) Variable

12 is a(n) Constant

2.  $a + 3b$

a is a(n) Variable

3 is a(n) Coefficient

b is a(n) Variable

3.  $6y$

6 is a(n) Coefficient

y is a(n) Variable

## Translations

Translate each verbal expression to an algebraic expression.

6. Eight more than 3 times a number

$$3x + 8$$

7. The difference of 10 and a number

$$10 - n$$

8. The quotient of 12 and a number

$$\frac{12}{x} \text{ or } 12 \div x$$

9. 15 less than twice a number

$$2x - 15$$

10. Three-fourths the square root of a number

$$\frac{3}{4} \sqrt{x}$$

11. The product of 5 and the cube of a number increased by the difference of 6 and x

$$5x^3 + (6 - x)$$

12. Half the sum of x and y decreased by one-third of y

$$\frac{1}{2}(x + y) - \frac{1}{3}y$$

or

$$\frac{x + y}{2} - \frac{y}{3}$$