Basic Algebra Vocabulary

In algebra, a <u>variable</u> is an unknown quantity. It is often represented by a letter. With a red crayon, circle the variables (or unknown amount) in each of the expressions below.

$$6 + x$$

$$\frac{16}{v}$$

A **constant** is a quantity with a value that does not change. It is usually represented by a number. With a blue crayon, circle the constants (or numerical amounts) in each of the expressions below.

$$4 + n$$

$$5 + a$$

An expression is a mathematical phrase with constants, variables, and/or operation symbols. Below each expression, tell what operation is used. Write addition, subtraction, division, or multiplication.

$$7 + n$$

$$\frac{9}{b}$$

An equation is a mathematical statement that uses an equal sign to show that two or more expressions are equal. Tell whether each item below is an equation or expression.

$$9 - n = 15$$

$$2c = 4$$

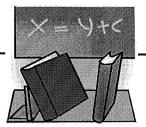
2 + x = 12 + 7

Is the mathematical statement shown above an equation or an expression? _

How many variables are in this statement? _____ How many constants? _____

Name:

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Evaluate each expression.

$$a = 3,$$
 $b = 5,$ $c = 6$

1. a + 5

2. 15 - c

3. 4b

4. $\frac{18}{c}$

5. 20 - a _____

6. 11*b* _____

7. $\frac{45}{b}$

8. a - 2

9. a+b+c ____

10. $\frac{C}{Q}$

p = 12, q = 2, r = 30

11. q50

12. $\frac{r}{q}$

13. *p* + 4 + 6

14. *p* - 7

15. 10*r*

16. 10 _____

17. $\frac{\rho}{4}$ _____

18. r-p

19. r-q _____

20. p ______

Now try this:

Write five of your own algebraic expressions on the back of this paper. Have a friend solve them.