

Math Practice Sheets

Variables and Expressions

Student Name



Examples

Practice Questions

Extra Challenge Unit

ExampleVariable and Constant:

Any letter or symbol that does not have any fixed value and may have more than one value we call a variable. For example, if 'x' represents the odd numbers between 6 and 12, then the values of x are 7, 9, and 11. Therefore, we call 'x' a variable.

Similarly, any letter or symbol that has fixed value we call a constant. For example, if 'a' represents the number of states in America, then the value of 'a' is 50. So, 'a' is a constant.

Algebraic Expression:

An algebraic expression is a mathematical phrase involving variables, numbers, and operations. Let 'x' represent the number, then

<u>Operation</u>	<u>Word Phrase</u>	<u>Algebraic Expression</u>
Addition	A number added to 7	$x + 7$
Subtraction	A number less 7	$x - 7$
Multiplication	7 times a number	$x \times 7$ or $7x$
Division	A number divided by 7	$x \div 7$ or $\frac{x}{7}$

Exercise

1. Write the algebraic expressions for each of the following.

a) A number 'm' increased by 10 _____

b) 'k' is decreased by 9 _____

c) The product of 2 and 'y' _____

d) The quotient of a number 'd' and 5 _____

e) 3 subtracted from 'n' _____

f) 4 added to 'x' _____

g) 12 times a number 'r' _____