

17. Variable Expressions

What is a Variable?

Variable: A letter (such as x , y , n) that represents an unknown or changing number

Expression: A mathematical phrase that connects numbers and variables using operation symbols

Examples: $x + 5$, $2n - 3$, $4y$

a)

Example: Evaluating Expressions

When $x = 3$, $x + 5 =$

When $n = 7$, $2n - 3 =$

b)

When $x = 4$, evaluate the following expressions

$x + 9 =$ $3x =$

$x - 2 =$ $2x + 1 =$

c)

When $y = 6$, evaluate the following expressions

$y + 7 =$ $4y =$

$y - 5 =$ $3y - 8 =$

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d)

When $n = 10$, evaluate the following expressions

$$n + 15 = \boxed{} \quad n - 3 = \boxed{}$$

$$2n = \boxed{} \quad n \div 2 = \boxed{}$$

e)

When $a = 5$, $b = 3$, evaluate the following expressions

$$a + b = \boxed{} \quad a - b = \boxed{}$$

$$2a + b = \boxed{} \quad a \times b = \boxed{}$$

f)

Write Expressions

A number 7 greater than x :

3 times n :

A number 4 less than y :