

1.4 Variable Expressions & Equations Day Two

Lesson Title _____ Date _____

Vocabulary

Variables: letters used to represent the unknowns

Algebraic expression: collection of numbers, variables, operation symbols, and grouping symbols.
NO =

Evaluate: a value for an expression

Equation: two expressions set = to each other

Solution/answer: the value for a variable that makes the equation true

Tasks

$x=3$ $y=2$

1) a) $2x - y$
 $2(3) - 2$

4

c) $\frac{x}{y} + \frac{y}{z}$
 $\frac{3}{2} + \frac{2}{2} = \frac{5}{2}$

b) $\frac{3x}{2y} = \frac{3(3)}{2(2)} = \frac{9}{4}$

d) $x^2 - y^2$
 $(3)^2 - (2)^2$
 $9 - 4 = 5$

2) a) Does $x=2$ in $3x + 10 = 8x$
 $3(2) + 10 = 8(2)$
 $6 + 10 = 16$
 $16 = 16 \checkmark$ **yes**

b) Does $x=4$ in $9x - 6 = 7x$
 $9(4) - 6 = 7(4)$
 $36 - 6 = 28$
 $28 = 28 \checkmark$ **yes**

Still need help with: