Solving for x: Lesson 02

Intro to Variables: Notes

Name: _____

Definition of a *variable* in math:

A _____ or _____

Examples: _____ , _____ , _____ , or _____

Variables are used for:

1. Something that can _____ . (2c$)
2. Something that is _____ . $(4x - 2 = 10)$

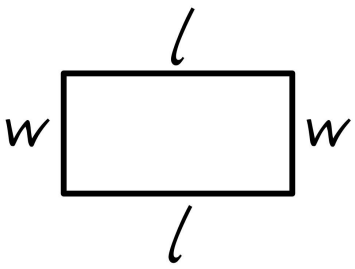
Formula for the amount of money you have in your pockets:

T = ____ × b ; b = # of $5 bills in your pocket

$T = \$5 \times b$; $b = 20$

T = $5 × _____ = $ _____

Formula for the perimeter of my rectangle:



P = ____ + ____ + ____ + ____

Perimeter if l = 40 ft and w = 25 ft

P = ____ + ____ + ____ + ____ = _____ feet

Definitions:

Expression: A combination of _____ , _____ , and math operations

with _____ equal sign

Equation: Has an _____ sign

Coefficients: The numbers in _____ of letters

coefficient of $-4ab$: _____ coefficient of b : _____

Terms: Items separated by _____ or _____ signs

terms of $f^2 + 56g - 3f$: _____ , _____ , _____

Evaluate expressions:

$6r + 7 \;;\; r = 3$

$6 \cdot \_\_\_\_ + 7$

$\_\_\_\_\_ + 7 = \_\_\_\_\_$

$(wx - 4)y \;;\; w = 3 \;,\; x = 4 \;,\; y = -2$

$(\_\_\_\_ \cdot \_\_\_\_ - 4)(\_\_\_\_)$

$(\_\_\_\_ - 4)(-2)$

$(\_\_\_\_)(-2) = \_\_\_\_$

Tricky ones:

$x^2 \;;\; x = -5$

$(\_\_\_\_)^2 = \_\_\_\_$

$-x^2 \;;\; x = 5$

$-(\_\_\_\_)^2 = \_\_\_\_$

$d^3 \;;\; d = -3$

$(\_\_\_\_)^3 =$

$\_\_\_\_ \cdot \_\_\_\_ \cdot \_\_\_\_ = \_\_\_\_$

$-d^3 \;;\; d = -3$

$-(\_\_\_\_)^3 = -\_\_\_\_ = \_\_\_\_$