Expressions - Substitution

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- An expression does NOT have an equals sign:

Expressions:

$x + 5$

$3x - 1$

Equations:

$x + 5 = 7$

$3x - 1 = 11$

- We don't "solve for x" in an expression
- We can substitute for x and follow BEDMAS

Ex. Evaluate if $x = 2$ and $y = -3$

a) $5x + 3$

$5 \cdot 2 + 3$

$10 + 3$

13

b) $3x + 10y$

$3 \cdot 2 + 10 \cdot (-3)$

$6 + -30$

-24

*side by side means multiply!

Ex. Evaluate if $a = 3$, $b = -4$, $c = 8$

a) $2a + \frac{c}{-2}$ ← divide

$2 \cdot 3 + \frac{8}{-2}$

$6 + -4$

2

b) $\frac{ac}{b}$

$\frac{3 \cdot 8}{-4}$

$\frac{24}{-4}$

-6

c) $a^2 - c$

$3 \cdot 3$

$3^2 - 8$

$9 - 8$

1