

Algebra day 1 - Expressions

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Expressions are math statements without an equal sign. They are made of symbols (letters/numb)

Exponent shows a number times ITSELF

so $x \cdot x$

x is a Variable. can be any letter. It represents a number.

4 is a Constant. Its value doesn't change

Coefficient shows multiplication! You have 3 groups of x - so $3x$

Expression - is made up of 2 Terms $3x^2$ and 4. Terms are separated by + or -

Example 1: Evaluate the expressions by **SUBSTITUTING** the given value in for the variable. You must use BEDMAS.

a) $x = 4$ in $2x + 1$

$$\begin{array}{l} 2(4) + 1 \\ 8 + 1 \\ 9 \end{array}$$

b) $n = 2$ in $-3n + 5$

$$\begin{array}{l} -3(2) + 5 \\ -6 + 5 \\ -1 \end{array}$$

c) $w = -5$ in $w^2 + w$

$$\begin{array}{l} (-5)^2 + (-5) \\ (-5)(-5) + -5 \\ 25 - 5 \\ 20 \end{array}$$

d) $t = 3$ in $t^2 - 2t + 7$

$$\begin{array}{l} (3)^2 - 2(3) + 7 \\ (3)(3) - 2(3) + 7 \\ 9 - 6 + 7 \\ 3 + 7 \\ 10 \end{array}$$

*Exponents Show base value times ITSELF