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Evaluate Expressions

* Evaluating expressions means to simplifying an **expression** down to a _____.
* Steps to *evaluate* algebraic expressions:
  - ❖ Step 1: _____ (replace) numbers (using parentheses for negative numbers) for _____.
  - ❖ Step 2: Solving using order of operations (PE^{MA}_{DS})

Example 1: Evaluate $k - 9$ when $k = -5$.

$k - 9 = (\quad\quad) - 9 =$

Solution:

Example 2: Evaluate $4x$ when $x = -10$.

$4x = 4 \times (\quad\quad) =$

Solution:

Example 3: Evaluate $4x - 3$ when $x = 2$.

Solution:

Example 4: Evaluate $-5x - 3$ when $x = -2$

Solution:

Example 5: Evaluate $5x^2 + 3x$ when $x = -3$

Solution:

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DO NOW!

Evaluate algebraic expressions with given numbers.

(1) $16 - x$ when x=5

Solution:

(2) $3n$ when $n = 5$

Solution:

(3) p^3 when $p = -1$

Solution:

(4) $3n$ when $n = 11$

Solution:

(5) $r + 5$ when $r = -3$

Solution:

(6) $\frac{4}{m} + 1$ when $m = -2$

Solution:

(7) $h - 3b$ when $h = -2$ and $b = 5$

Solution:

(8) $3h - \frac{w}{9}$ when $w = 18$ and $h = 3$

Solution:

(9) $6s - 4b$ when $s = -6$ and $b = 6$

Solution:

(10) $\frac{d}{-7} - 5 + 4x$ when $d = -28$ and $x = -5$

Solution:

(11) $9f + 2h$ when $f = -6$ and $h = 6$

Solution:

(12) $-6 - \frac{h}{9} + 5s$ when $h = 18$ and $s = 5$

Solution:

LIVEWORKSHEETS