

Evaluating Expressions GUIDED NOTES Use (Replace/ substitute)

Steps for Evaluating Expressions

1. Rewrite the Expression leaving blank in place of the variable
2. Replace / substitute in Numbers
3. Solve using the "Order of Operations: PEMDAS"

Examples: Evaluate each expression for the given replacement values or set.

1. $n + (13 - n) \div 5$ for $n = 8$

9

$$8 + (13 - 8) \div 5$$

$$8 + 5 \div 5$$

$$8 + 1$$

(P)
(D)

(A)

2. $2x - y + z$ when $x = 10$, $y = 4$, and $z = -2$

$$2 \cdot 10 - 4 + -2$$

$$2 \cdot 10 - 4 - 2$$

$$20 - 4 - 2$$

$$16 - 2$$

14

(M)
(S)

(S)

(1) P (1)

(2) E $\times^2$

(3) MD $\rightarrow$

(4) AS $\rightarrow$

Evaluate each expression if $a = 8$, $b = 2$, $c = 4$ and $d = 3$.

1. $2a - 3b$

2. $8c \cdot 3$

3. $\frac{2d^3}{b}$

