

Activating Prior Knowledge

Order of Operations

Perform operations inside the brackets first.
Next, divide and multiply in order from left to right.
Then add and subtract in order from left to right.

The letters B, D, M, A, and S can help you remember the order of operations.

B—Brackets
D, M—Divide, Multiply
A, S—Add, Subtract

Example 1

Simplify.

a) $10 - 3 \times 2$

b) $12 \div (5 + 1)$

c) $6 \times 2 \div 3 + 1$

Solution

$$\begin{array}{l} \text{a) } 10 - 3 \times 2 = 10 - 6 \\ \phantom{\text{a) } 10 - 3 \times 2} = 4 \end{array}$$

Multiply first.
Then subtract.

$$\begin{array}{l} \text{b) } 12 \div (5 + 1) = 12 \div 6 \\ \phantom{\text{b) } 12 \div (5 + 1)} = 2 \end{array}$$

Add inside the brackets first.
Then divide.

$$\begin{array}{l} \text{c) } 6 \times 2 \div 3 + 1 = 12 \div 3 + 1 \\ \phantom{\text{c) } 6 \times 2 \div 3 + 1} = 4 + 1 \\ \phantom{\text{c) } 6 \times 2 \div 3 + 1} = 5 \end{array}$$

Multiply first.
Then divide.
Then add.

Check

1. Simplify.

a) $12 - 2 \times 4$

$= 12 - \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}}$

b) $20 \div (2 + 3)$

$= 20 \div \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}}$

c) $12 \div 6 \times 5 + 4$

$= \underline{\hspace{1cm}} \times 5 + 4$

$= \underline{\hspace{2cm}}$

d) $10 + 4 \div 2$

$= 10 + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}}$

e) $(9 - 5) \times 6$

$= \underline{\hspace{1cm}} \times 6$

$= \underline{\hspace{2cm}}$

f) $5 + 2 \times 3 - 4$

$= 5 + \underline{\hspace{2cm}}$

$= \underline{\hspace{2cm}}$

BEDMAS review – Order of Operations

Underline each step before performing the operation. Show all the steps.

$12 - 2 \times 4$

$20 \div 2 + 3$

$(10 + 4) \div 2$

$(9 - 5) \times 6$

$12 \div 6 \times (5 + 4)$

$5 + 2 \times (3 + 4)$

$2 \times (10 - 3)$

$35 \div (7 - 2)$

$8 \times 6 \div (3 + 1)$

$(5 + 7) - 2 \times 6$

$5 - 2 + 7 \times 10$

$10 \div (7 - 5) \times 8$