

# Order of Operations (J)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

$$(10 + 2) \times 3 - 4 \times 9 + 7$$

$$(9 - 6) \times 4 + 10 - 2 \times 5$$

$$(2 + 6) \times 3 - 9 - 10 + 4$$

$$(7 + 3 - 8) \times 6 - 9 + 5$$

$$8 \times (9 + 2 - 4 - 6 + 5)$$

$$(10 \times (7 + 3 - 8)) \times (6 - 5)$$

$$4 \times 5 - 6 + 7 \times (10 - 8)$$

$$(8 - 6 + 4) \times 5 + 3 - 9$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (10 + 2) \times 3 - 4 \times 9 + 7 \\ & = 12 \times 3 - 4 \times 9 + 7 \\ & = 36 - 4 \times 9 + 7 \\ & = 36 - 36 + 7 \\ & = 0 + 7 \\ & = 7 \end{aligned}$$

$$\begin{aligned} & (9 - 6) \times 4 + 10 - 2 \times 5 \\ & = 3 \times 4 + 10 - 2 \times 5 \\ & = 12 + 10 - 2 \times 5 \\ & = 12 + 10 - 10 \\ & = 22 - 10 \\ & = 12 \end{aligned}$$

$$\begin{aligned} & (2 + 6) \times 3 - 9 - 10 + 4 \\ & = 8 \times 3 - 9 - 10 + 4 \\ & = 24 - 9 - 10 + 4 \\ & = 15 - 10 + 4 \\ & = 5 + 4 \\ & = 9 \end{aligned}$$

$$\begin{aligned} & (7 + 3 - 8) \times 6 - 9 + 5 \\ & = (10 - 8) \times 6 - 9 + 5 \\ & = 2 \times 6 - 9 + 5 \\ & = 12 - 9 + 5 \\ & = 3 + 5 \\ & = 8 \end{aligned}$$

$$\begin{aligned} & 8 \times (9 + 2 - 4 - 6 + 5) \\ & = 8 \times (11 - 4 - 6 + 5) \\ & = 8 \times (7 - 6 + 5) \\ & = 8 \times (1 + 5) \\ & = 8 \times 6 \\ & = 48 \end{aligned}$$

$$\begin{aligned} & (10 \times (7 + 3 - 8)) \times (6 - 5) \\ & = (10 \times (10 - 8)) \times (6 - 5) \\ & = (10 \times 2) \times (6 - 5) \\ & = 20 \times (6 - 5) \\ & = 20 \times 1 \\ & = 20 \end{aligned}$$

$$\begin{aligned} & 4 \times 5 - 6 + 7 \times (10 - 8) \\ & = 4 \times 5 - 6 + 7 \times 2 \\ & = 20 - 6 + 7 \times 2 \\ & = 20 - 6 + 14 \\ & = 14 + 14 \\ & = 28 \end{aligned}$$

$$\begin{aligned} & (8 - 6 + 4) \times 5 + 3 - 9 \\ & = (2 + 4) \times 5 + 3 - 9 \\ & = 6 \times 5 + 3 - 9 \\ & = 30 + 3 - 9 \\ & = 33 - 9 \\ & = 24 \end{aligned}$$