

Order of Operations (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(4 \times (3 + 10 - 9 + 8)) \times (7 - 6)$$

$$(2 \times (4 + 7 - 6)) \times (10 - 9 + 5)$$

$$(8 \times (2 + 5 - 4)) \times (3 + 10 - 9)$$

$$((5 - 4) \times (9 + 7 - 6 + 8)) \times 3$$

$$(10 + 5) \times (9 - 3 - 6) \times (7 + 4)$$

$$(5 + 8 - 3) \times ((9 + 4 - 10) \times 2)$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} &(4 \times (3 + 10 - 9 + 8)) \times (7 - 6) \\ &= (4 \times (13 - 9 + 8)) \times (7 - 6) \\ &= (4 \times (4 + 8)) \times (7 - 6) \\ &= (4 \times 12) \times (7 - 6) \\ &= 48 \times (7 - 6) \\ &= 48 \times 1 \\ &= 48 \end{aligned}$$

$$\begin{aligned} &(2 \times (4 + 7 - 6)) \times (10 - 9 + 5) \\ &= (2 \times (11 - 6)) \times (10 - 9 + 5) \\ &= (2 \times 5) \times (10 - 9 + 5) \\ &= 10 \times (10 - 9 + 5) \\ &= 10 \times (1 + 5) \\ &= 10 \times 6 \\ &= 60 \end{aligned}$$

$$\begin{aligned} &(8 \times (2 + 5 - 4)) \times (3 + 10 - 9) \\ &= (8 \times (7 - 4)) \times (3 + 10 - 9) \\ &= (8 \times 3) \times (3 + 10 - 9) \\ &= 24 \times (3 + 10 - 9) \\ &= 24 \times (13 - 9) \\ &= 24 \times 4 \\ &= 96 \end{aligned}$$

$$\begin{aligned} &((5 - 4) \times (9 + 7 - 6 + 8)) \times 3 \\ &= (1 \times (9 + 7 - 6 + 8)) \times 3 \\ &= (1 \times (16 - 6 + 8)) \times 3 \\ &= (1 \times (10 + 8)) \times 3 \\ &= (1 \times 18) \times 3 \\ &= 18 \times 3 \\ &= 54 \end{aligned}$$

$$\begin{aligned} &(10 + 5) \times (9 - 3 - 6) \times (7 + 4) \\ &= 15 \times (9 - 3 - 6) \times (7 + 4) \\ &= 15 \times (6 - 6) \times (7 + 4) \\ &= 15 \times 0 \times (7 + 4) \\ &= 15 \times 0 \times 11 \\ &= 0 \times 11 \\ &= 0 \end{aligned}$$

$$\begin{aligned} &(5 + 8 - 3) \times ((9 + 4 - 10) \times 2) \\ &= (13 - 3) \times ((9 + 4 - 10) \times 2) \\ &= 10 \times ((9 + 4 - 10) \times 2) \\ &= 10 \times ((13 - 10) \times 2) \\ &= 10 \times (3 \times 2) \\ &= 10 \times 6 \\ &= 60 \end{aligned}$$