

Order of Operations (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(2 \times (4 + 3)) \times 10 + 5 \times 7 + 9$$

$$(2 \times (6 + 5)) \times 3 + 10 \times (8 + 4)$$

$$(5 \times (2 + 3)) \times 4 + 10 + 9 \times 6$$

$$(8 + 9) \times 4 + 3 \times 2 \times (10 + 7)$$

$$((7 + 6) \times 4) \times 2 + 9 + 5 \times 3$$

$$5 \times 4 + 8 + 2 \times ((9 + 7) \times 3)$$

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$$\begin{aligned}(2 \times (4 + 3)) \times 10 + 5 \times 7 + 9 \\ &= (2 \times 7) \times 10 + 5 \times 7 + 9 \\ &= 14 \times 10 + 5 \times 7 + 9 \\ &= 140 + 5 \times 7 + 9 \\ &= 140 + 35 + 9 \\ &= 175 + 9 \\ &= 184\end{aligned}$$

$$\begin{aligned}(2 \times (6 + 5)) \times 3 + 10 \times (8 + 4) \\ &= (2 \times 11) \times 3 + 10 \times (8 + 4) \\ &= 22 \times 3 + 10 \times (8 + 4) \\ &= 22 \times 3 + 10 \times 12 \\ &= 66 + 10 \times 12 \\ &= 66 + 120 \\ &= 186\end{aligned}$$

$$\begin{aligned}(5 \times (2 + 3)) \times 4 + 10 + 9 \times 6 \\ &= (5 \times 5) \times 4 + 10 + 9 \times 6 \\ &= 25 \times 4 + 10 + 9 \times 6 \\ &= 100 + 10 + 9 \times 6 \\ &= 100 + 10 + 54 \\ &= 110 + 54 \\ &= 164\end{aligned}$$

$$\begin{aligned}(8 + 9) \times 4 + 3 \times 2 \times (10 + 7) \\ &= 17 \times 4 + 3 \times 2 \times (10 + 7) \\ &= 17 \times 4 + 3 \times 2 \times 17 \\ &= 68 + 3 \times 2 \times 17 \\ &= 68 + 6 \times 17 \\ &= 68 + 102 \\ &= 170\end{aligned}$$

$$\begin{aligned}((7 + 6) \times 4) \times 2 + 9 + 5 \times 3 \\ &= (13 \times 4) \times 2 + 9 + 5 \times 3 \\ &= 52 \times 2 + 9 + 5 \times 3 \\ &= 104 + 9 + 5 \times 3 \\ &= 104 + 9 + 15 \\ &= 113 + 15 \\ &= 128\end{aligned}$$

$$\begin{aligned}5 \times 4 + 8 + 2 \times ((9 + 7) \times 3) \\ &= 5 \times 4 + 8 + 2 \times (16 \times 3) \\ &= 5 \times 4 + 8 + 2 \times 48 \\ &= 20 + 8 + 2 \times 48 \\ &= 20 + 8 + 96 \\ &= 28 + 96 \\ &= 124\end{aligned}$$