

Order of Operations (A)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$(4 \times (5 + 2)) \times 6 + 7 + 3 \times 8$$

$$6 \times 9 + 4 + 8 \times (2 \times (5 + 3))$$

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

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

$$7 \times 8 + 5 + 4 \times ((6 + 9) \times 2)$$

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

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$$\begin{aligned}(4 \times (5 + 2)) \times 6 + 7 + 3 \times 8 \\ &= (4 \times 7) \times 6 + 7 + 3 \times 8 \\ &= 28 \times 6 + 7 + 3 \times 8 \\ &= 168 + 7 + 3 \times 8 \\ &= 168 + 7 + 24 \\ &= 175 + 24 \\ &= 199\end{aligned}$$

$$\begin{aligned}6 \times 9 + 4 + 8 \times (2 \times (5 + 3)) \\ &= 6 \times 9 + 4 + 8 \times (2 \times 8) \\ &= 6 \times 9 + 4 + 8 \times 16 \\ &= 54 + 4 + 8 \times 16 \\ &= 54 + 4 + 128 \\ &= 58 + 128 \\ &= 186\end{aligned}$$

$$\begin{aligned}3 \times 4 + 7 + 5 \times (2 \times (9 + 6)) \\ &= 3 \times 4 + 7 + 5 \times (2 \times 15) \\ &= 3 \times 4 + 7 + 5 \times 30 \\ &= 12 + 7 + 5 \times 30 \\ &= 12 + 7 + 150 \\ &= 19 + 150 \\ &= 169\end{aligned}$$

$$\begin{aligned}(9 + 8) \times 4 \times 2 + 3 \times (5 + 10) \\ &= 17 \times 4 \times 2 + 3 \times (5 + 10) \\ &= 17 \times 4 \times 2 + 3 \times 15 \\ &= 68 \times 2 + 3 \times 15 \\ &= 136 + 3 \times 15 \\ &= 136 + 45 \\ &= 181\end{aligned}$$

$$\begin{aligned}7 \times 8 + 5 + 4 \times ((6 + 9) \times 2) \\ &= 7 \times 8 + 5 + 4 \times (15 \times 2) \\ &= 7 \times 8 + 5 + 4 \times 30 \\ &= 56 + 5 + 4 \times 30 \\ &= 56 + 5 + 120 \\ &= 61 + 120 \\ &= 181\end{aligned}$$

$$\begin{aligned}4 \times 7 + 10 + 5 \times ((6 + 9) \times 2) \\ &= 4 \times 7 + 10 + 5 \times (15 \times 2) \\ &= 4 \times 7 + 10 + 5 \times 30 \\ &= 28 + 10 + 5 \times 30 \\ &= 28 + 10 + 150 \\ &= 38 + 150 \\ &= 188\end{aligned}$$