

# 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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Solve each expression using the correct order of operations.

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

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

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

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

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

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