

Order of Operations (C)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$6 + 7 \times 4 + 2 \times ((8 + 9) \times 3)$$

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

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

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

$$((3 + 8) \times 6) \times 2 + 10 + 9 \times 5$$

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

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$$\begin{aligned} & 6 + 7 \times 4 + 2 \times ((8 + 9) \times 3) \\ & = 6 + 7 \times 4 + 2 \times (17 \times 3) \\ & = 6 + 7 \times 4 + 2 \times 51 \\ & = 6 + 28 + 2 \times 51 \\ & = 6 + 28 + 102 \\ & = 34 + 102 \\ & = 136 \end{aligned}$$

$$\begin{aligned} & 4 \times 5 + 9 + 2 \times (3 \times (10 + 8)) \\ & = 4 \times 5 + 9 + 2 \times (3 \times 18) \\ & = 4 \times 5 + 9 + 2 \times 54 \\ & = 20 + 9 + 2 \times 54 \\ & = 20 + 9 + 108 \\ & = 29 + 108 \\ & = 137 \end{aligned}$$

$$\begin{aligned} & 9 \times 3 + 8 + 5 \times ((6 + 2) \times 4) \\ & = 9 \times 3 + 8 + 5 \times (8 \times 4) \\ & = 9 \times 3 + 8 + 5 \times 32 \\ & = 27 + 8 + 5 \times 32 \\ & = 27 + 8 + 160 \\ & = 35 + 160 \\ & = 195 \end{aligned}$$

$$\begin{aligned} & ((2 + 4) \times 3) \times 5 + 8 + 6 \times 10 \\ & = (6 \times 3) \times 5 + 8 + 6 \times 10 \\ & = 18 \times 5 + 8 + 6 \times 10 \\ & = 90 + 8 + 6 \times 10 \\ & = 90 + 8 + 60 \\ & = 98 + 60 \\ & = 158 \end{aligned}$$

$$\begin{aligned} & ((3 + 8) \times 6) \times 2 + 10 + 9 \times 5 \\ & = (11 \times 6) \times 2 + 10 + 9 \times 5 \\ & = 66 \times 2 + 10 + 9 \times 5 \\ & = 132 + 10 + 9 \times 5 \\ & = 132 + 10 + 45 \\ & = 142 + 45 \\ & = 187 \end{aligned}$$

$$\begin{aligned} & 4 \times 7 + 8 + 3 \times ((5 + 2) \times 6) \\ & = 4 \times 7 + 8 + 3 \times (7 \times 6) \\ & = 4 \times 7 + 8 + 3 \times 42 \\ & = 28 + 8 + 3 \times 42 \\ & = 28 + 8 + 126 \\ & = 36 + 126 \\ & = 162 \end{aligned}$$