

Order of Operations (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

$$6 - 4 + 10 \times (5 \times (9 - 8))$$

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$$\begin{aligned} & 3 \times 8 + 9 - 5 \times (2 + 4) \\ & = \underline{3 \times 8} + 9 - 5 \times 6 \\ & = 24 + 9 - \underline{5 \times 6} \\ & = \underline{24 + 9} - 30 \\ & = \underline{33 - 30} \\ & = 3 \end{aligned}$$

$$\begin{aligned} & (5 + 8) \times 3 - 4 + 6 \times 9 \\ & = \underline{13 \times 3} - 4 + 6 \times 9 \\ & = 39 - 4 + \underline{6 \times 9} \\ & = \underline{39 - 4} + 54 \\ & = \underline{35 + 54} \\ & = 89 \end{aligned}$$

$$\begin{aligned} & 8 + 3 \times (6 - 5) \times 10 - 2 \\ & = 8 + \underline{3 \times 1} \times 10 - 2 \\ & = 8 + \underline{3 \times 10} - 2 \\ & = \underline{8 + 30} - 2 \\ & = \underline{38 - 2} \\ & = 36 \end{aligned}$$

$$\begin{aligned} & (4 + 10 - 8) \times (7 - 6 + 3) \\ & = (\underline{14 - 8}) \times (7 - 6 + 3) \\ & = 6 \times (\underline{7 - 6} + 3) \\ & = 6 \times (\underline{1 + 3}) \\ & = \underline{6 \times 4} \\ & = 24 \end{aligned}$$

$$\begin{aligned} & 7 \times 6 - 5 + 3 \times (10 - 9) \\ & = \underline{7 \times 6} - 5 + 3 \times 1 \\ & = 42 - 5 + \underline{3 \times 1} \\ & = \underline{42 - 5} + 3 \\ & = \underline{37 + 3} \\ & = 40 \end{aligned}$$

$$\begin{aligned} & (3 + 4 - 2) \times (7 + 5 - 6) \\ & = (\underline{7 - 2}) \times (7 + 5 - 6) \\ & = 5 \times (\underline{7 + 5} - 6) \\ & = 5 \times (\underline{12 - 6}) \\ & = \underline{5 \times 6} \\ & = 30 \end{aligned}$$

$$\begin{aligned} & (9 + 5) \times 3 - 10 - 4 \times 8 \\ & = \underline{14 \times 3} - 10 - 4 \times 8 \\ & = 42 - 10 - \underline{4 \times 8} \\ & = \underline{42 - 10} - 32 \\ & = \underline{32 - 32} \\ & = 0 \end{aligned}$$

$$\begin{aligned} & 6 - 4 + 10 \times (5 \times (9 - 8)) \\ & = 6 - 4 + 10 \times (\underline{5 \times 1}) \\ & = 6 - 4 + \underline{10 \times 5} \\ & = \underline{6 - 4} + 50 \\ & = \underline{2 + 50} \\ & = 52 \end{aligned}$$