

Order of Operations (H)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

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

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

$$((5 + 2) \times 3) \times 7 + 10 + 4 \times 8$$

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

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

$$3 \times 9 + 10 + 2 \times ((4 + 6) \times 8)$$

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$$\begin{aligned} & 10 \times 3 + 4 + 6 \times (2 \times (8 + 5)) \\ & = 10 \times 3 + 4 + 6 \times (2 \times 13) \\ & = \underline{10 \times 3} + 4 + 6 \times 26 \\ & = 30 + 4 + \underline{6 \times 26} \\ & = \underline{30 + 4} + 156 \\ & = \underline{34 + 156} \\ & = 190 \end{aligned}$$

$$\begin{aligned} & (2 \times (10 + 6)) \times 5 + 8 \times 3 + 9 \\ & = (2 \times 16) \times 5 + 8 \times 3 + 9 \\ & = \underline{32 \times 5} + 8 \times 3 + 9 \\ & = 160 + \underline{8 \times 3} + 9 \\ & = \underline{160 + 24} + 9 \\ & = \underline{184 + 9} \\ & = 193 \end{aligned}$$

$$\begin{aligned} & ((5 + 2) \times 3) \times 7 + 10 + 4 \times 8 \\ & = (\underline{7 \times 3}) \times 7 + 10 + 4 \times 8 \\ & = \underline{21 \times 7} + 10 + 4 \times 8 \\ & = 147 + 10 + \underline{4 \times 8} \\ & = \underline{147 + 10} + 32 \\ & = \underline{157 + 32} \\ & = 189 \end{aligned}$$

$$\begin{aligned} & 4 \times 5 + 6 + 2 \times ((10 + 9) \times 3) \\ & = 4 \times 5 + 6 + 2 \times (\underline{19 \times 3}) \\ & = \underline{4 \times 5} + 6 + 2 \times 57 \\ & = 20 + 6 + \underline{2 \times 57} \\ & = \underline{20 + 6} + 114 \\ & = \underline{26 + 114} \\ & = 140 \end{aligned}$$

$$\begin{aligned} & ((3 + 10) \times 6) \times 2 + 5 + 4 \times 8 \\ & = (\underline{13 \times 6}) \times 2 + 5 + 4 \times 8 \\ & = \underline{78 \times 2} + 5 + 4 \times 8 \\ & = 156 + 5 + \underline{4 \times 8} \\ & = \underline{156 + 5} + 32 \\ & = \underline{161 + 32} \\ & = 193 \end{aligned}$$

$$\begin{aligned} & 3 \times 9 + 10 + 2 \times ((4 + 6) \times 8) \\ & = 3 \times 9 + 10 + 2 \times (\underline{10 \times 8}) \\ & = \underline{3 \times 9} + 10 + 2 \times 80 \\ & = 27 + 10 + \underline{2 \times 80} \\ & = \underline{27 + 10} + 160 \\ & = \underline{37 + 160} \\ & = 197 \end{aligned}$$