

Order of Operations (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$10 \times 3 + 5 + 4 \times ((9 + 7) \times 2)$$

$$7 \times 5 + 10 + 4 \times ((2 + 6) \times 3)$$

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

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

$$(3 \times (8 + 7)) \times 2 + 5 \times (9 + 10)$$

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$$\begin{aligned} & (6 + 9) \times 8 + 4 \times ((3 + 7) \times 2) \\ & = 15 \times 8 + 4 \times ((3 + 7) \times 2) \\ & = 15 \times 8 + 4 \times (10 \times 2) \\ & = \underline{15 \times 8} + 4 \times 20 \\ & = 120 + \underline{4 \times 20} \\ & = \underline{120 + 80} \\ & = 200 \end{aligned}$$

$$\begin{aligned} & 10 \times 3 + 5 + 4 \times ((9 + 7) \times 2) \\ & = 10 \times 3 + 5 + 4 \times (16 \times 2) \\ & = \underline{10 \times 3} + 5 + 4 \times 32 \\ & = 30 + 5 + \underline{4 \times 32} \\ & = \underline{30 + 5} + 128 \\ & = \underline{35 + 128} \\ & = 163 \end{aligned}$$

$$\begin{aligned} & 7 \times 5 + 10 + 4 \times ((2 + 6) \times 3) \\ & = 7 \times 5 + 10 + 4 \times (8 \times 3) \\ & = \underline{7 \times 5} + 10 + 4 \times 24 \\ & = 35 + 10 + \underline{4 \times 24} \\ & = \underline{35 + 10} + 96 \\ & = \underline{45 + 96} \\ & = 141 \end{aligned}$$

$$\begin{aligned} & (6 + 4) \times 10 + 3 \times 2 \times (5 + 8) \\ & = 10 \times 10 + 3 \times 2 \times (5 + 8) \\ & = \underline{10 \times 10} + 3 \times 2 \times 13 \\ & = 100 + \underline{3 \times 2} \times 13 \\ & = 100 + \underline{6 \times 13} \\ & = \underline{100 + 78} \\ & = 178 \end{aligned}$$

$$\begin{aligned} & 3 \times 9 + 6 + 2 \times (4 \times (5 + 10)) \\ & = 3 \times 9 + 6 + 2 \times (4 \times 15) \\ & = \underline{3 \times 9} + 6 + 2 \times 60 \\ & = 27 + 6 + \underline{2 \times 60} \\ & = \underline{27 + 6} + 120 \\ & = \underline{33 + 120} \\ & = 153 \end{aligned}$$

$$\begin{aligned} & (3 \times (8 + 7)) \times 2 + 5 \times (9 + 10) \\ & = (3 \times 15) \times 2 + 5 \times (9 + 10) \\ & = 45 \times 2 + 5 \times (9 + 10) \\ & = \underline{45 \times 2} + 5 \times 19 \\ & = 90 + \underline{5 \times 19} \\ & = \underline{90 + 95} \\ & = 185 \end{aligned}$$