

Order of Operations (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$6 \times 8 + 4 + 3 \times ((10 + 7) \times 2)$$

$$(8 \times (5 + 4)) \times 2 + 9 + 6 \times 7$$

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

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

$$8 \times 7 + 5 + 4 \times (3 \times (2 + 9))$$

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

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$$\begin{aligned} &6 \times 8 + 4 + 3 \times ((\underline{10 + 7}) \times 2) \\ &= 6 \times 8 + 4 + 3 \times (\underline{17 \times 2}) \\ &= \underline{6 \times 8} + 4 + 3 \times 34 \\ &= 48 + 4 + \underline{3 \times 34} \\ &= \underline{48 + 4} + 102 \\ &= \underline{52 + 102} \\ &= 154 \end{aligned}$$

$$\begin{aligned} &(8 \times (\underline{5 + 4})) \times 2 + 9 + 6 \times 7 \\ &= (\underline{8 \times 9}) \times 2 + 9 + 6 \times 7 \\ &= \underline{72 \times 2} + 9 + 6 \times 7 \\ &= 144 + 9 + \underline{6 \times 7} \\ &= \underline{144 + 9} + 42 \\ &= \underline{153 + 42} \\ &= 195 \end{aligned}$$

$$\begin{aligned} &9 \times 8 + 3 + 2 \times (4 \times (\underline{10 + 5})) \\ &= 9 \times 8 + 3 + 2 \times (\underline{4 \times 15}) \\ &= \underline{9 \times 8} + 3 + 2 \times 60 \\ &= 72 + 3 + \underline{2 \times 60} \\ &= \underline{72 + 3} + 120 \\ &= \underline{75 + 120} \\ &= 195 \end{aligned}$$

$$\begin{aligned} &8 \times 7 + 10 + 2 \times ((\underline{3 + 4}) \times 5) \\ &= 8 \times 7 + 10 + 2 \times (\underline{7 \times 5}) \\ &= \underline{8 \times 7} + 10 + 2 \times 35 \\ &= 56 + 10 + \underline{2 \times 35} \\ &= \underline{56 + 10} + 70 \\ &= \underline{66 + 70} \\ &= 136 \end{aligned}$$

$$\begin{aligned} &8 \times 7 + 5 + 4 \times (3 \times (\underline{2 + 9})) \\ &= 8 \times 7 + 5 + 4 \times (\underline{3 \times 11}) \\ &= \underline{8 \times 7} + 5 + 4 \times 33 \\ &= 56 + 5 + \underline{4 \times 33} \\ &= \underline{56 + 5} + 132 \\ &= \underline{61 + 132} \\ &= 193 \end{aligned}$$

$$\begin{aligned} &(\underline{3 + 7}) \times 5 + 6 \times ((8 + 4) \times 2) \\ &= 10 \times 5 + 6 \times ((\underline{8 + 4}) \times 2) \\ &= 10 \times 5 + 6 \times (\underline{12 \times 2}) \\ &= \underline{10 \times 5} + 6 \times 24 \\ &= 50 + \underline{6 \times 24} \\ &= \underline{50 + 144} \\ &= 194 \end{aligned}$$