

Order of Operations (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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Simplify each expression using the correct order of operations.

$$\begin{aligned} &6 \times 10 + 5 + 4 \times ((\underline{9 + 3}) \times 2) \\ &= 6 \times 10 + 5 + 4 \times (\underline{12 \times 2}) \\ &= \underline{6 \times 10} + 5 + 4 \times 24 \\ &= 60 + 5 + \underline{4 \times 24} \\ &= \underline{60 + 5} + 96 \\ &= \underline{65 + 96} \\ &= 161 \end{aligned}$$

$$\begin{aligned} &8 \times 9 + 3 + 4 \times (2 \times (\underline{6 + 5})) \\ &= 8 \times 9 + 3 + 4 \times (\underline{2 \times 11}) \\ &= \underline{8 \times 9} + 3 + 4 \times 22 \\ &= 72 + 3 + \underline{4 \times 22} \\ &= \underline{72 + 3} + 88 \\ &= \underline{75 + 88} \\ &= 163 \end{aligned}$$

$$\begin{aligned} &(2 \times (\underline{3 + 4})) \times 7 + 9 + 8 \times 5 \\ &= (\underline{2 \times 7}) \times 7 + 9 + 8 \times 5 \\ &= \underline{14 \times 7} + 9 + 8 \times 5 \\ &= 98 + 9 + \underline{8 \times 5} \\ &= \underline{98 + 9} + 40 \\ &= \underline{107 + 40} \\ &= 147 \end{aligned}$$

$$\begin{aligned} &7 \times 4 + 10 + 2 \times ((\underline{5 + 9}) \times 3) \\ &= 7 \times 4 + 10 + 2 \times (\underline{14 \times 3}) \\ &= \underline{7 \times 4} + 10 + 2 \times 42 \\ &= 28 + 10 + \underline{2 \times 42} \\ &= \underline{28 + 10} + 84 \\ &= \underline{38 + 84} \\ &= 122 \end{aligned}$$

$$\begin{aligned} &(\underline{5 + 7}) \times 3 + 2 \times (4 \times (6 + 8)) \\ &= 12 \times 3 + 2 \times (4 \times (\underline{6 + 8})) \\ &= 12 \times 3 + 2 \times (\underline{4 \times 14}) \\ &= \underline{12 \times 3} + 2 \times 56 \\ &= 36 + \underline{2 \times 56} \\ &= \underline{36 + 112} \\ &= 148 \end{aligned}$$

$$\begin{aligned} &((\underline{2 + 6}) \times 4) \times 3 + 5 \times (8 + 10) \\ &= (\underline{8 \times 4}) \times 3 + 5 \times (8 + 10) \\ &= 32 \times 3 + 5 \times (\underline{8 + 10}) \\ &= \underline{32 \times 3} + 5 \times 18 \\ &= 96 + \underline{5 \times 18} \\ &= \underline{96 + 90} \\ &= 186 \end{aligned}$$