

Order of Operations (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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

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

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

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$$\begin{aligned} &2 \times (5 + \underline{10 \times 3} + 7) \\ &= 2 \times (\underline{5 + 30} + 7) \\ &= 2 \times (\underline{35 + 7}) \\ &= \underline{2 \times 42} \\ &= 84 \end{aligned}$$

$$\begin{aligned} &(\underline{3 \times 2} + 9) \times 6 + 8 \\ &= (\underline{6 + 9}) \times 6 + 8 \\ &= \underline{15 \times 6} + 8 \\ &= \underline{90 + 8} \\ &= 98 \end{aligned}$$

$$\begin{aligned} &3 \times 6 + 2 \times (\underline{4 + 10}) \\ &= \underline{3 \times 6} + 2 \times 14 \\ &= 18 + \underline{2 \times 14} \\ &= \underline{18 + 28} \\ &= 46 \end{aligned}$$

$$\begin{aligned} &6 \times 5 + 4 \times (\underline{9 + 7}) \\ &= \underline{6 \times 5} + 4 \times 16 \\ &= 30 + \underline{4 \times 16} \\ &= \underline{30 + 64} \\ &= 94 \end{aligned}$$

$$\begin{aligned} &4 + 6 \times (8 + \underline{3 \times 2}) \\ &= 4 + 6 \times (\underline{8 + 6}) \\ &= 4 + \underline{6 \times 14} \\ &= \underline{4 + 84} \\ &= 88 \end{aligned}$$

$$\begin{aligned} &(\underline{8 + 2}) \times 4 + 5 \times 3 \\ &= \underline{10 \times 4} + 5 \times 3 \\ &= 40 + \underline{5 \times 3} \\ &= \underline{40 + 15} \\ &= 55 \end{aligned}$$

$$\begin{aligned} &(\underline{7 \times 3} + 9) \times 2 + 10 \\ &= (\underline{21 + 9}) \times 2 + 10 \\ &= \underline{30 \times 2} + 10 \\ &= \underline{60 + 10} \\ &= 70 \end{aligned}$$

$$\begin{aligned} &(\underline{2 + 5}) \times 6 + 4 \times 8 \\ &= \underline{7 \times 6} + 4 \times 8 \\ &= 42 + \underline{4 \times 8} \\ &= \underline{42 + 32} \\ &= 74 \end{aligned}$$

$$\begin{aligned} &(\underline{3 \times 4} + 9 + 10) \times 2 \\ &= (\underline{12 + 9} + 10) \times 2 \\ &= (\underline{21 + 10}) \times 2 \\ &= \underline{31 \times 2} \\ &= 62 \end{aligned}$$

$$\begin{aligned} &(\underline{3 + 10}) \times 6 + 4 \times 5 \\ &= \underline{13 \times 6} + 4 \times 5 \\ &= 78 + \underline{4 \times 5} \\ &= \underline{78 + 20} \\ &= 98 \end{aligned}$$