

# Order of Operations (H)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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

# Order of Operations (H)

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & 8 \times (6 - 3 + 2 - 4 + 10) \\ & = 8 \times (3 + 2 - 4 + 10) \\ & = 8 \times (5 - 4 + 10) \\ & = 8 \times (1 + 10) \\ & = \underline{8 \times 11} \\ & = 88 \end{aligned}$$

$$\begin{aligned} & 6 \times ((8 + 7 - 5 - 4) \times 2) \\ & = 6 \times ((15 - 5 - 4) \times 2) \\ & = 6 \times ((10 - 4) \times 2) \\ & = 6 \times (6 \times 2) \\ & = \underline{6 \times 12} \\ & = 72 \end{aligned}$$

$$\begin{aligned} & (5 - 4) \times ((6 + 8 - 10) \times 2) \\ & = 1 \times ((6 + 8 - 10) \times 2) \\ & = 1 \times ((14 - 10) \times 2) \\ & = 1 \times (4 \times 2) \\ & = \underline{1 \times 8} \\ & = 8 \end{aligned}$$

$$\begin{aligned} & (3 \times (5 + 4 - 7 + 8)) \times 2 \\ & = (3 \times (9 - 7 + 8)) \times 2 \\ & = (3 \times (2 + 8)) \times 2 \\ & = (3 \times 10) \times 2 \\ & = \underline{30 \times 2} \\ & = 60 \end{aligned}$$

$$\begin{aligned} & (4 + 6) \times 10 - 3 - 2 \times 9 \\ & = \underline{10 \times 10} - 3 - 2 \times 9 \\ & = 100 - 3 - \underline{2 \times 9} \\ & = \underline{100 - 3} - 18 \\ & = \underline{97 - 18} \\ & = 79 \end{aligned}$$

$$\begin{aligned} & (2 + 4) \times (9 - 6 + 7 - 8) \\ & = 6 \times (9 - 6 + 7 - 8) \\ & = 6 \times (3 + 7 - 8) \\ & = 6 \times (10 - 8) \\ & = \underline{6 \times 2} \\ & = 12 \end{aligned}$$

$$\begin{aligned} & (6 + 9 - 8) \times 2 - 5 + 7 \\ & = (15 - 8) \times 2 - 5 + 7 \\ & = \underline{7 \times 2} - 5 + 7 \\ & = \underline{14 - 5} + 7 \\ & = \underline{9 + 7} \\ & = 16 \end{aligned}$$

$$\begin{aligned} & (7 + 3) \times 9 - 10 - 5 + 8 \\ & = \underline{10 \times 9} - 10 - 5 + 8 \\ & = \underline{90 - 10} - 5 + 8 \\ & = \underline{80 - 5} + 8 \\ & = \underline{75 + 8} \\ & = 83 \end{aligned}$$