

Order of Operations (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(7 + 8) \times (10 - 9) \times 3 - 4 + 6$$

$$8 - 7 + 10 \times (4 + 3) \times (6 - 5)$$

$$((6 + 8) \times (5 - 4)) \times 3 + 10 - 9$$

$$(8 - 4) \times 10 + 7 - 3 \times (6 + 5)$$

$$8 - 2 + 5 \times (6 + 3) \times (9 - 7)$$

$$(7 + 3 - 10) \times ((6 - 5 + 4) \times 8)$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (7 + 8) \times (10 - 9) \times 3 - 4 + 6 \\ & = 15 \times (10 - 9) \times 3 - 4 + 6 \\ & = 15 \times 1 \times 3 - 4 + 6 \\ & = 15 \times 3 - 4 + 6 \\ & = 45 - 4 + 6 \\ & = 41 + 6 \\ & = 47 \end{aligned}$$

$$\begin{aligned} & 8 - 7 + 10 \times (4 + 3) \times (6 - 5) \\ & = 8 - 7 + 10 \times 7 \times (6 - 5) \\ & = 8 - 7 + 10 \times 7 \times 1 \\ & = 8 - 7 + 70 \times 1 \\ & = 8 - 7 + 70 \\ & = 1 + 70 \\ & = 71 \end{aligned}$$

$$\begin{aligned} & ((6 + 8) \times (5 - 4)) \times 3 + 10 - 9 \\ & = (14 \times (5 - 4)) \times 3 + 10 - 9 \\ & = (14 \times 1) \times 3 + 10 - 9 \\ & = 14 \times 3 + 10 - 9 \\ & = 42 + 10 - 9 \\ & = 52 - 9 \\ & = 43 \end{aligned}$$

$$\begin{aligned} & (8 - 4) \times 10 + 7 - 3 \times (6 + 5) \\ & = 4 \times 10 + 7 - 3 \times (6 + 5) \\ & = 4 \times 10 + 7 - 3 \times 11 \\ & = 40 + 7 - 3 \times 11 \\ & = 40 + 7 - 33 \\ & = 47 - 33 \\ & = 14 \end{aligned}$$

$$\begin{aligned} & 8 - 2 + 5 \times (6 + 3) \times (9 - 7) \\ & = 8 - 2 + 5 \times 9 \times (9 - 7) \\ & = 8 - 2 + 5 \times 9 \times 2 \\ & = 8 - 2 + 45 \times 2 \\ & = 8 - 2 + 90 \\ & = 6 + 90 \\ & = 96 \end{aligned}$$

$$\begin{aligned} & (7 + 3 - 10) \times ((6 - 5 + 4) \times 8) \\ & = (10 - 10) \times ((6 - 5 + 4) \times 8) \\ & = 0 \times ((6 - 5 + 4) \times 8) \\ & = 0 \times ((1 + 4) \times 8) \\ & = 0 \times (5 \times 8) \\ & = 0 \times 40 \\ & = 0 \end{aligned}$$