

Order of Operations (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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

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

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

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$$\begin{aligned}5 + 4 \times (8 \times 2 + 6) \\&= 5 + 4 \times (16 + 6) \\&= 5 + 4 \times 22 \\&= 5 + 88 \\&= 93\end{aligned}$$

$$\begin{aligned}(6 + 3) \times 8 + 2 \times 10 \\&= 9 \times 8 + 2 \times 10 \\&= 72 + 2 \times 10 \\&= 72 + 20 \\&= 92\end{aligned}$$

$$\begin{aligned}(4 + 9 \times 2 + 7) \times 3 \\&= (4 + 18 + 7) \times 3 \\&= (22 + 7) \times 3 \\&= 29 \times 3 \\&= 87\end{aligned}$$

$$\begin{aligned}3 \times 6 + 4 \times (10 + 8) \\&= 3 \times 6 + 4 \times 18 \\&= 18 + 4 \times 18 \\&= 18 + 72 \\&= 90\end{aligned}$$

$$\begin{aligned}(4 + 8 \times 2 + 6) \times 3 \\&= (4 + 16 + 6) \times 3 \\&= (20 + 6) \times 3 \\&= 26 \times 3 \\&= 78\end{aligned}$$

$$\begin{aligned}(8 \times 2 + 7 + 10) \times 3 \\&= (16 + 7 + 10) \times 3 \\&= (23 + 10) \times 3 \\&= 33 \times 3 \\&= 99\end{aligned}$$

$$\begin{aligned}4 \times 10 + 5 \times (3 + 6) \\&= 4 \times 10 + 5 \times 9 \\&= 40 + 5 \times 9 \\&= 40 + 45 \\&= 85\end{aligned}$$

$$\begin{aligned}2 \times (10 + 4 + 7 \times 5) \\&= 2 \times (10 + 4 + 35) \\&= 2 \times (14 + 35) \\&= 2 \times 49 \\&= 98\end{aligned}$$

$$\begin{aligned}(6 + 7 \times 2 + 8) \times 3 \\&= (6 + 14 + 8) \times 3 \\&= (20 + 8) \times 3 \\&= 28 \times 3 \\&= 84\end{aligned}$$

$$\begin{aligned}2 \times (9 + 8 + 3 \times 10) \\&= 2 \times (9 + 8 + 30) \\&= 2 \times (17 + 30) \\&= 2 \times 47 \\&= 94\end{aligned}$$