

Order of Operations (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((9 - 6 + 3) \times 5) \times 2 - 10 + 7$$

$$(6 - 4) \times (2 + 9 + 10) \times (8 - 7)$$

$$(5 - 4) \times (7 + 6 - 10) \times (9 + 2)$$

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

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

$$(5 - 3) \times (8 + 4 - 10 + 9) \times 2$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((9 - 6 + 3) \times 5) \times 2 - 10 + 7 \\ & = ((3 + 3) \times 5) \times 2 - 10 + 7 \\ & = (6 \times 5) \times 2 - 10 + 7 \\ & = 30 \times 2 - 10 + 7 \\ & = 60 - 10 + 7 \\ & = 50 + 7 \\ & = 57 \end{aligned}$$

$$\begin{aligned} & (6 - 4) \times (2 + 9 + 10) \times (8 - 7) \\ & = 2 \times (2 + 9 + 10) \times (8 - 7) \\ & = 2 \times (11 + 10) \times (8 - 7) \\ & = 2 \times 21 \times (8 - 7) \\ & = 2 \times 21 \times 1 \\ & = 42 \times 1 \\ & = 42 \end{aligned}$$

$$\begin{aligned} & (5 - 4) \times (7 + 6 - 10) \times (9 + 2) \\ & = 1 \times (7 + 6 - 10) \times (9 + 2) \\ & = 1 \times (13 - 10) \times (9 + 2) \\ & = 1 \times 3 \times (9 + 2) \\ & = 1 \times 3 \times 11 \\ & = 3 \times 11 \\ & = 33 \end{aligned}$$

$$\begin{aligned} & (3 \times (7 + 4 - 5)) \times (9 - 8 + 2) \\ & = (3 \times (11 - 5)) \times (9 - 8 + 2) \\ & = (3 \times 6) \times (9 - 8 + 2) \\ & = 18 \times (9 - 8 + 2) \\ & = 18 \times (1 + 2) \\ & = 18 \times 3 \\ & = 54 \end{aligned}$$

$$\begin{aligned} & (6 \times (3 + 5 - 4 + 9 - 8)) \times 2 \\ & = (6 \times (8 - 4 + 9 - 8)) \times 2 \\ & = (6 \times (4 + 9 - 8)) \times 2 \\ & = (6 \times (13 - 8)) \times 2 \\ & = (6 \times 5) \times 2 \\ & = 30 \times 2 \\ & = 60 \end{aligned}$$

$$\begin{aligned} & (5 - 3) \times (8 + 4 - 10 + 9) \times 2 \\ & = 2 \times (8 + 4 - 10 + 9) \times 2 \\ & = 2 \times (12 - 10 + 9) \times 2 \\ & = 2 \times (2 + 9) \times 2 \\ & = 2 \times 11 \times 2 \\ & = 22 \times 2 \\ & = 44 \end{aligned}$$