

Order of Operations (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

$$(3 \times (10 + 9)) \times 2 + 7 + 8$$

$$(2 + 10) \times 5 + 3 \times (4 \times 6)$$

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

$$(10 + 5) \times 2 + 4 \times (6 + 3)$$

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

$$(4 + 8) \times 7 + 5 \times (2 + 10)$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (10 + 3) \times 2 + 6 \times (4 + 9) \\ & = 13 \times 2 + 6 \times (4 + 9) \\ & = 13 \times 2 + 6 \times 13 \\ & = 26 + 6 \times 13 \\ & = 26 + 78 \\ & = 104 \end{aligned}$$

$$\begin{aligned} & (10 + 6) \times 4 + 2 \times (3 \times 9) \\ & = 16 \times 4 + 2 \times (3 \times 9) \\ & = 16 \times 4 + 2 \times 27 \\ & = 64 + 2 \times 27 \\ & = 64 + 54 \\ & = 118 \end{aligned}$$

$$\begin{aligned} & (3 \times (10 + 9)) \times 2 + 7 + 8 \\ & = (3 \times 19) \times 2 + 7 + 8 \\ & = 57 \times 2 + 7 + 8 \\ & = 114 + 7 + 8 \\ & = 121 + 8 \\ & = 129 \end{aligned}$$

$$\begin{aligned} & (2 + 10) \times 5 + 3 \times (4 \times 6) \\ & = 12 \times 5 + 3 \times (4 \times 6) \\ & = 12 \times 5 + 3 \times 24 \\ & = 60 + 3 \times 24 \\ & = 60 + 72 \\ & = 132 \end{aligned}$$

$$\begin{aligned} & (9 + 5) \times 4 + 7 \times (3 \times 2) \\ & = 14 \times 4 + 7 \times (3 \times 2) \\ & = 14 \times 4 + 7 \times 6 \\ & = 56 + 7 \times 6 \\ & = 56 + 42 \\ & = 98 \end{aligned}$$

$$\begin{aligned} & (10 + 5) \times 2 + 4 \times (6 + 3) \\ & = 15 \times 2 + 4 \times (6 + 3) \\ & = 15 \times 2 + 4 \times 9 \\ & = 30 + 4 \times 9 \\ & = 30 + 36 \\ & = 66 \end{aligned}$$

$$\begin{aligned} & (2 + 4) \times 5 + 3 \times (7 + 8) \\ & = 6 \times 5 + 3 \times (7 + 8) \\ & = 6 \times 5 + 3 \times 15 \\ & = 30 + 3 \times 15 \\ & = 30 + 45 \\ & = 75 \end{aligned}$$

$$\begin{aligned} & (4 + 8) \times 7 + 5 \times (2 + 10) \\ & = 12 \times 7 + 5 \times (2 + 10) \\ & = 12 \times 7 + 5 \times 12 \\ & = 84 + 5 \times 12 \\ & = 84 + 60 \\ & = 144 \end{aligned}$$