

Order of Operations (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

$$(6 + 7) \times 5 + 4 \times (2 + 3)$$

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

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

$$((4 + 3) \times 7) \times 2 + 6 \times 8$$

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

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

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (2 + 9) \times 8 + 3 \times (10 + 5) \\ & = 11 \times 8 + 3 \times (10 + 5) \\ & = 11 \times 8 + 3 \times 15 \\ & = 88 + 3 \times 15 \\ & = 88 + 45 \\ & = 133 \end{aligned}$$

$$\begin{aligned} & ((3 + 10) \times 4) \times 2 + 8 + 9 \\ & = (13 \times 4) \times 2 + 8 + 9 \\ & = 52 \times 2 + 8 + 9 \\ & = 104 + 8 + 9 \\ & = 112 + 9 \\ & = 121 \end{aligned}$$

$$\begin{aligned} & (6 + 7) \times 5 + 4 \times (2 + 3) \\ & = 13 \times 5 + 4 \times (2 + 3) \\ & = 13 \times 5 + 4 \times 5 \\ & = 65 + 4 \times 5 \\ & = 65 + 20 \\ & = 85 \end{aligned}$$

$$\begin{aligned} & ((4 + 3) \times 7) \times 2 + 5 + 9 \\ & = (7 \times 7) \times 2 + 5 + 9 \\ & = 49 \times 2 + 5 + 9 \\ & = 98 + 5 + 9 \\ & = 103 + 9 \\ & = 112 \end{aligned}$$

$$\begin{aligned} & (2 \times (9 + 6)) \times 3 + 5 + 7 \\ & = (2 \times 15) \times 3 + 5 + 7 \\ & = 30 \times 3 + 5 + 7 \\ & = 90 + 5 + 7 \\ & = 95 + 7 \\ & = 102 \end{aligned}$$

$$\begin{aligned} & ((4 + 3) \times 7) \times 2 + 6 \times 8 \\ & = (7 \times 7) \times 2 + 6 \times 8 \\ & = 49 \times 2 + 6 \times 8 \\ & = 98 + 6 \times 8 \\ & = 98 + 48 \\ & = 146 \end{aligned}$$

$$\begin{aligned} & (7 + 10) \times 2 + 6 \times (3 \times 5) \\ & = 17 \times 2 + 6 \times (3 \times 5) \\ & = 17 \times 2 + 6 \times 15 \\ & = 34 + 6 \times 15 \\ & = 34 + 90 \\ & = 124 \end{aligned}$$

$$\begin{aligned} & (3 + 9) \times 5 + 4 \times (2 + 8) \\ & = 12 \times 5 + 4 \times (2 + 8) \\ & = 12 \times 5 + 4 \times 10 \\ & = 60 + 4 \times 10 \\ & = 60 + 40 \\ & = 100 \end{aligned}$$