

Order of Operations (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

$$(7 + 4) \times 8 + 6 \times (5 + 2)$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (9 + 8) \times 4 + 5 \times (6 + 2) \\ & = 17 \times 4 + 5 \times (6 + 2) \\ & = \underline{17 \times 4} + 5 \times 8 \\ & = 68 + \underline{5 \times 8} \\ & = \underline{68 + 40} \\ & = 108 \end{aligned}$$

$$\begin{aligned} & (10 + 8) \times 4 + 3 \times (7 + 5) \\ & = 18 \times 4 + 3 \times (7 + 5) \\ & = \underline{18 \times 4} + 3 \times 12 \\ & = 72 + \underline{3 \times 12} \\ & = \underline{72 + 36} \\ & = 108 \end{aligned}$$

$$\begin{aligned} & (5 \times (4 + 9)) \times 2 + 3 + 6 \\ & = (5 \times 13) \times 2 + 3 + 6 \\ & = \underline{65 \times 2} + 3 + 6 \\ & = \underline{130 + 3} + 6 \\ & = \underline{133 + 6} \\ & = 139 \end{aligned}$$

$$\begin{aligned} & (9 + 5) \times 4 + 7 \times (6 \times 2) \\ & = 14 \times 4 + 7 \times (6 \times 2) \\ & = \underline{14 \times 4} + 7 \times 12 \\ & = 56 + \underline{7 \times 12} \\ & = \underline{56 + 84} \\ & = 140 \end{aligned}$$

$$\begin{aligned} & (9 + 2) \times 6 + 7 \times (4 + 5) \\ & = 11 \times 6 + 7 \times (4 + 5) \\ & = \underline{11 \times 6} + 7 \times 9 \\ & = 66 + \underline{7 \times 9} \\ & = \underline{66 + 63} \\ & = 129 \end{aligned}$$

$$\begin{aligned} & (5 + 6) \times 9 + 2 \times (4 + 7) \\ & = 11 \times 9 + 2 \times (4 + 7) \\ & = \underline{11 \times 9} + 2 \times 11 \\ & = 99 + \underline{2 \times 11} \\ & = \underline{99 + 22} \\ & = 121 \end{aligned}$$

$$\begin{aligned} & (3 + 2) \times 5 + 7 \times (9 + 6) \\ & = 5 \times 5 + 7 \times (9 + 6) \\ & = \underline{5 \times 5} + 7 \times 15 \\ & = 25 + \underline{7 \times 15} \\ & = \underline{25 + 105} \\ & = 130 \end{aligned}$$

$$\begin{aligned} & (7 + 4) \times 8 + 6 \times (5 + 2) \\ & = 11 \times 8 + 6 \times (5 + 2) \\ & = \underline{11 \times 8} + 6 \times 7 \\ & = 88 + \underline{6 \times 7} \\ & = \underline{88 + 42} \\ & = 130 \end{aligned}$$