

# Order of Operations (E)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

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

$$((7 + 9) \times 2) \times 3 + 4 + 10$$

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

$$(6 + 3) \times 8 + 5 \times (4 + 7)$$

$$(8 + 4) \times 7 + 3 \times (9 + 10)$$

$$(9 + 4) \times 7 + 3 \times (8 + 10)$$

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

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

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((\underline{3+8}) \times 2) \times 5 + 4 + 10 \\ &= (\underline{11 \times 2}) \times 5 + 4 + 10 \\ &= \underline{22 \times 5} + 4 + 10 \\ &= \underline{110 + 4} + 10 \\ &= \underline{114 + 10} \\ &= 124 \end{aligned}$$

$$\begin{aligned} & ((\underline{7+9}) \times 2) \times 3 + 4 + 10 \\ &= (\underline{16 \times 2}) \times 3 + 4 + 10 \\ &= \underline{32 \times 3} + 4 + 10 \\ &= \underline{96 + 4} + 10 \\ &= \underline{100 + 10} \\ &= 110 \end{aligned}$$

$$\begin{aligned} & (\underline{5+6}) \times 2 + 4 \times (10 + 3) \\ &= 11 \times 2 + 4 \times (\underline{10+3}) \\ &= \underline{11 \times 2} + 4 \times 13 \\ &= 22 + \underline{4 \times 13} \\ &= \underline{22 + 52} \\ &= 74 \end{aligned}$$

$$\begin{aligned} & (\underline{6+3}) \times 8 + 5 \times (4 + 7) \\ &= 9 \times 8 + 5 \times (\underline{4+7}) \\ &= \underline{9 \times 8} + 5 \times 11 \\ &= 72 + \underline{5 \times 11} \\ &= \underline{72 + 55} \\ &= 127 \end{aligned}$$

$$\begin{aligned} & (\underline{8+4}) \times 7 + 3 \times (9 + 10) \\ &= 12 \times 7 + 3 \times (\underline{9+10}) \\ &= \underline{12 \times 7} + 3 \times 19 \\ &= 84 + \underline{3 \times 19} \\ &= \underline{84 + 57} \\ &= 141 \end{aligned}$$

$$\begin{aligned} & (\underline{9+4}) \times 7 + 3 \times (8 + 10) \\ &= 13 \times 7 + 3 \times (\underline{8+10}) \\ &= \underline{13 \times 7} + 3 \times 18 \\ &= 91 + \underline{3 \times 18} \\ &= \underline{91 + 54} \\ &= 145 \end{aligned}$$

$$\begin{aligned} & (\underline{8+7}) \times 2 + 5 \times (4 \times 6) \\ &= 15 \times 2 + 5 \times (\underline{4 \times 6}) \\ &= \underline{15 \times 2} + 5 \times 24 \\ &= 30 + \underline{5 \times 24} \\ &= \underline{30 + 120} \\ &= 150 \end{aligned}$$

$$\begin{aligned} & (5 \times (\underline{3+9})) \times 2 + 7 + 8 \\ &= (\underline{5 \times 12}) \times 2 + 7 + 8 \\ &= \underline{60 \times 2} + 7 + 8 \\ &= \underline{120 + 7} + 8 \\ &= \underline{127 + 8} \\ &= 135 \end{aligned}$$