

Order of Operations (J)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$(6 + 8) \times 3 + 10 \times (4 + 2)$$

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

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

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

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

$$(6 + 7) \times 4 + 5 \times (10 + 8)$$

$$(9 + 8) \times 6 + 2 \times (7 + 5)$$

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

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$$\begin{aligned} & (6 + 8) \times 3 + 10 \times (4 + 2) \\ &= 14 \times 3 + 10 \times (4 + 2) \\ &= 14 \times 3 + 10 \times 6 \\ &= 42 + 10 \times 6 \\ &= 42 + 60 \\ &= 102 \end{aligned}$$

$$\begin{aligned} & (2 \times (7 + 10)) \times 4 + 3 + 9 \\ &= (2 \times 17) \times 4 + 3 + 9 \\ &= 34 \times 4 + 3 + 9 \\ &= 136 + 3 + 9 \\ &= 139 + 9 \\ &= 148 \end{aligned}$$

$$\begin{aligned} & 5 \times 4 + 3 \times ((8 + 9) \times 2) \\ &= 5 \times 4 + 3 \times (17 \times 2) \\ &= 5 \times 4 + 3 \times 34 \\ &= 20 + 3 \times 34 \\ &= 20 + 102 \\ &= 122 \end{aligned}$$

$$\begin{aligned} & 3 \times 6 + 2 \times ((4 + 5) \times 7) \\ &= 3 \times 6 + 2 \times (9 \times 7) \\ &= 3 \times 6 + 2 \times 63 \\ &= 18 + 2 \times 63 \\ &= 18 + 126 \\ &= 144 \end{aligned}$$

$$\begin{aligned} & (2 \times (8 + 7)) \times 3 + 9 + 10 \\ &= (2 \times 15) \times 3 + 9 + 10 \\ &= 30 \times 3 + 9 + 10 \\ &= 90 + 9 + 10 \\ &= 99 + 10 \\ &= 109 \end{aligned}$$

$$\begin{aligned} & (6 + 7) \times 4 + 5 \times (10 + 8) \\ &= 13 \times 4 + 5 \times (10 + 8) \\ &= 13 \times 4 + 5 \times 18 \\ &= 52 + 5 \times 18 \\ &= 52 + 90 \\ &= 142 \end{aligned}$$

$$\begin{aligned} & (9 + 8) \times 6 + 2 \times (7 + 5) \\ &= 17 \times 6 + 2 \times (7 + 5) \\ &= 17 \times 6 + 2 \times 12 \\ &= 102 + 2 \times 12 \\ &= 102 + 24 \\ &= 126 \end{aligned}$$

$$\begin{aligned} & (10 + 6) \times 7 + 2 \times (9 + 8) \\ &= 16 \times 7 + 2 \times (9 + 8) \\ &= 16 \times 7 + 2 \times 17 \\ &= 112 + 2 \times 17 \\ &= 112 + 34 \\ &= 146 \end{aligned}$$