

Order of Operations (J)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$(6 + 9) \times 8 + 4 \times ((3 + 7) \times 2)$$

$$10 \times 3 + 5 + 4 \times ((9 + 7) \times 2)$$

$$7 \times 5 + 10 + 4 \times ((2 + 6) \times 3)$$

$$(6 + 4) \times 10 + 3 \times 2 \times (5 + 8)$$

$$3 \times 9 + 6 + 2 \times (4 \times (5 + 10))$$

$$(3 \times (8 + 7)) \times 2 + 5 \times (9 + 10)$$

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$$\begin{aligned} & (6 + 9) \times 8 + 4 \times ((3 + 7) \times 2) \\ &= 15 \times 8 + 4 \times ((3 + 7) \times 2) \\ &= 15 \times 8 + 4 \times (10 \times 2) \\ &= 15 \times 8 + 4 \times 20 \\ &= 120 + 4 \times 20 \\ &= 120 + 80 \\ &= 200 \end{aligned}$$

$$\begin{aligned} & 10 \times 3 + 5 + 4 \times ((9 + 7) \times 2) \\ &= 10 \times 3 + 5 + 4 \times (16 \times 2) \\ &= 10 \times 3 + 5 + 4 \times 32 \\ &= 30 + 5 + 4 \times 32 \\ &= 30 + 5 + 128 \\ &= 35 + 128 \\ &= 163 \end{aligned}$$

$$\begin{aligned} & 7 \times 5 + 10 + 4 \times ((2 + 6) \times 3) \\ &= 7 \times 5 + 10 + 4 \times (8 \times 3) \\ &= 7 \times 5 + 10 + 4 \times 24 \\ &= 35 + 10 + 4 \times 24 \\ &= 35 + 10 + 96 \\ &= 45 + 96 \\ &= 141 \end{aligned}$$

$$\begin{aligned} & (6 + 4) \times 10 + 3 \times 2 \times (5 + 8) \\ &= 10 \times 10 + 3 \times 2 \times (5 + 8) \\ &= 10 \times 10 + 3 \times 2 \times 13 \\ &= 100 + 3 \times 2 \times 13 \\ &= 100 + 6 \times 13 \\ &= 100 + 78 \\ &= 178 \end{aligned}$$

$$\begin{aligned} & 3 \times 9 + 6 + 2 \times (4 \times (5 + 10)) \\ &= 3 \times 9 + 6 + 2 \times (4 \times 15) \\ &= 3 \times 9 + 6 + 2 \times 60 \\ &= 27 + 6 + 2 \times 60 \\ &= 27 + 6 + 120 \\ &= 33 + 120 \\ &= 153 \end{aligned}$$

$$\begin{aligned} & (3 \times (8 + 7)) \times 2 + 5 \times (9 + 10) \\ &= (3 \times 15) \times 2 + 5 \times (9 + 10) \\ &= 45 \times 2 + 5 \times (9 + 10) \\ &= 45 \times 2 + 5 \times 19 \\ &= 90 + 5 \times 19 \\ &= 90 + 95 \\ &= 185 \end{aligned}$$