

Order of Operations (G)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$(2 \times (4 + 7)) \times 3 + 6 \times (10 + 8)$$

$$10 \times 5 + 6 + 2 \times ((7 + 9) \times 3)$$

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

$$((3 + 7) \times 4) \times 2 + 10 + 9 \times 6$$

$$(4 + 9) \times 3 \times 2 + 5 \times (7 + 6)$$

$$(5 \times (9 + 4)) \times 2 + 10 + 8 \times 3$$

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$$\begin{aligned} &(2 \times (4 + 7)) \times 3 + 6 \times (10 + 8) \\ &= (2 \times 11) \times 3 + 6 \times (10 + 8) \\ &= 22 \times 3 + 6 \times (10 + 8) \\ &= 22 \times 3 + 6 \times 18 \\ &= 66 + 6 \times 18 \\ &= 66 + 108 \\ &= 174 \end{aligned}$$

$$\begin{aligned} &10 \times 5 + 6 + 2 \times ((7 + 9) \times 3) \\ &= 10 \times 5 + 6 + 2 \times (16 \times 3) \\ &= 10 \times 5 + 6 + 2 \times 48 \\ &= 50 + 6 + 2 \times 48 \\ &= 50 + 6 + 96 \\ &= 56 + 96 \\ &= 152 \end{aligned}$$

$$\begin{aligned} &(2 \times (5 + 6)) \times 4 + 8 + 10 \times 3 \\ &= (2 \times 11) \times 4 + 8 + 10 \times 3 \\ &= 22 \times 4 + 8 + 10 \times 3 \\ &= 88 + 8 + 10 \times 3 \\ &= 88 + 8 + 30 \\ &= 96 + 30 \\ &= 126 \end{aligned}$$

$$\begin{aligned} &((3 + 7) \times 4) \times 2 + 10 + 9 \times 6 \\ &= (10 \times 4) \times 2 + 10 + 9 \times 6 \\ &= 40 \times 2 + 10 + 9 \times 6 \\ &= 80 + 10 + 9 \times 6 \\ &= 80 + 10 + 54 \\ &= 90 + 54 \\ &= 144 \end{aligned}$$

$$\begin{aligned} &(4 + 9) \times 3 \times 2 + 5 \times (7 + 6) \\ &= 13 \times 3 \times 2 + 5 \times (7 + 6) \\ &= 13 \times 3 \times 2 + 5 \times 13 \\ &= 39 \times 2 + 5 \times 13 \\ &= 78 + 5 \times 13 \\ &= 78 + 65 \\ &= 143 \end{aligned}$$

$$\begin{aligned} &(5 \times (9 + 4)) \times 2 + 10 + 8 \times 3 \\ &= (5 \times 13) \times 2 + 10 + 8 \times 3 \\ &= 65 \times 2 + 10 + 8 \times 3 \\ &= 130 + 10 + 8 \times 3 \\ &= 130 + 10 + 24 \\ &= 140 + 24 \\ &= 164 \end{aligned}$$