

Order of Operations (J)

Name: _____

Date: _____

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

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

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

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

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

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

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

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