

## Order of Operations (B)

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

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

Simplify each expression using the correct order of operations.

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

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

$$10 \times ((5 + 3 - 7 + 8 - 6) \times 2)$$

$$(4 + 5 - 8) \times (7 + 9 - 10) \times 2$$

$$4 \times ((8 - 7 + 2 + 3 - 5) \times 6)$$

$$((7 - 6) \times (4 + 9 + 10 - 8)) \times 2$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (\underline{5+4} - 2) \times (9 \times (3 + 7 - 10)) \\ &= (\underline{9-2}) \times (9 \times (3 + 7 - 10)) \\ &= 7 \times (9 \times (\underline{3+7} - 10)) \\ &= 7 \times (9 \times (\underline{10-10})) \\ &= 7 \times (\underline{9 \times 0}) \\ &= \underline{7 \times 0} \\ &= 0 \end{aligned}$$

$$\begin{aligned} & 7 \times ((\underline{6+9} - 10 - 4 + 3) \times 2) \\ &= 7 \times ((\underline{15-10} - 4 + 3) \times 2) \\ &= 7 \times ((\underline{5-4} + 3) \times 2) \\ &= 7 \times ((\underline{1+3}) \times 2) \\ &= 7 \times (\underline{4 \times 2}) \\ &= \underline{7 \times 8} \\ &= 56 \end{aligned}$$

$$\begin{aligned} & 10 \times ((\underline{5+3} - 7 + 8 - 6) \times 2) \\ &= 10 \times ((\underline{8-7} + 8 - 6) \times 2) \\ &= 10 \times ((\underline{1+8} - 6) \times 2) \\ &= 10 \times ((\underline{9-6}) \times 2) \\ &= 10 \times (\underline{3 \times 2}) \\ &= \underline{10 \times 6} \\ &= 60 \end{aligned}$$

$$\begin{aligned} & (\underline{4+5} - 8) \times (7 + 9 - 10) \times 2 \\ &= (\underline{9-8}) \times (7 + 9 - 10) \times 2 \\ &= 1 \times (\underline{7+9} - 10) \times 2 \\ &= 1 \times (\underline{16-10}) \times 2 \\ &= \underline{1 \times 6} \times 2 \\ &= \underline{6 \times 2} \\ &= 12 \end{aligned}$$

$$\begin{aligned} & 4 \times ((\underline{8-7} + 2 + 3 - 5) \times 6) \\ &= 4 \times ((\underline{1+2} + 3 - 5) \times 6) \\ &= 4 \times ((\underline{3+3} - 5) \times 6) \\ &= 4 \times ((\underline{6-5}) \times 6) \\ &= 4 \times (\underline{1 \times 6}) \\ &= \underline{4 \times 6} \\ &= 24 \end{aligned}$$

$$\begin{aligned} & ((\underline{7-6}) \times (4 + 9 + 10 - 8)) \times 2 \\ &= (1 \times (\underline{4+9} + 10 - 8)) \times 2 \\ &= (1 \times (\underline{13+10} - 8)) \times 2 \\ &= (1 \times (\underline{23-8})) \times 2 \\ &= (\underline{1 \times 15}) \times 2 \\ &= \underline{15 \times 2} \\ &= 30 \end{aligned}$$