

# Order of Operations (F)

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

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

Simplify each expression using the correct order of operations.

$$6 - 2 + 7 \times (10 - 9) \times (5 + 4)$$

$$((10 + 6 - 4) \times 2) \times 3 + 8 - 9$$

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

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

$$(5 - 2) \times (3 + 7 + 4 - 10) \times 8$$

$$9 \times ((5 + 6 - 3 - 8 + 2) \times 4)$$

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Simplify each expression using the correct order of operations.

$$\begin{aligned} &6 - 2 + 7 \times (10 - 9) \times (5 + 4) \\ &= 6 - 2 + 7 \times 1 \times (5 + 4) \\ &= 6 - 2 + 7 \times 1 \times 9 \\ &= 6 - 2 + 7 \times 9 \\ &= 6 - 2 + 63 \\ &= 4 + 63 \\ &= 67 \end{aligned}$$

$$\begin{aligned} &((10 + 6 - 4) \times 2) \times 3 + 8 - 9 \\ &= ((16 - 4) \times 2) \times 3 + 8 - 9 \\ &= (12 \times 2) \times 3 + 8 - 9 \\ &= 24 \times 3 + 8 - 9 \\ &= 72 + 8 - 9 \\ &= 80 - 9 \\ &= 71 \end{aligned}$$

$$\begin{aligned} &((4 + 2) \times (7 - 6)) \times 8 - 3 + 10 \\ &= (6 \times (7 - 6)) \times 8 - 3 + 10 \\ &= (6 \times 1) \times 8 - 3 + 10 \\ &= 6 \times 8 - 3 + 10 \\ &= 48 - 3 + 10 \\ &= 45 + 10 \\ &= 55 \end{aligned}$$

$$\begin{aligned} &6 \times (2 + 3 - 5) \times (10 + 4 - 8) \\ &= 6 \times (5 - 5) \times (10 + 4 - 8) \\ &= 6 \times 0 \times (10 + 4 - 8) \\ &= 6 \times 0 \times (14 - 8) \\ &= 6 \times 0 \times 6 \\ &= 0 \times 6 \\ &= 0 \end{aligned}$$

$$\begin{aligned} &(5 - 2) \times (3 + 7 + 4 - 10) \times 8 \\ &= 3 \times (3 + 7 + 4 - 10) \times 8 \\ &= 3 \times (10 + 4 - 10) \times 8 \\ &= 3 \times (14 - 10) \times 8 \\ &= 3 \times 4 \times 8 \\ &= 12 \times 8 \\ &= 96 \end{aligned}$$

$$\begin{aligned} &9 \times ((5 + 6 - 3 - 8 + 2) \times 4) \\ &= 9 \times ((11 - 3 - 8 + 2) \times 4) \\ &= 9 \times ((8 - 8 + 2) \times 4) \\ &= 9 \times ((0 + 2) \times 4) \\ &= 9 \times (2 \times 4) \\ &= 9 \times 8 \\ &= 72 \end{aligned}$$