

# Order of Operations (E)

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

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

Simplify each expression using the correct order of operations.

$$((10 \times 4) \div (5 + 6 - 8 + 7)) \times 2$$

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

$$5 \times (7 - 2 + 10) \div (6 + 8 - 9)$$

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

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

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

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$$\begin{aligned} & ((10 \times 4) \div (5 + 6 - 8 + 7)) \times 2 \\ &= (40 \div (5 + 6 - 8 + 7)) \times 2 \\ &= (40 \div (11 - 8 + 7)) \times 2 \\ &= (40 \div (3 + 7)) \times 2 \\ &= (40 \div 10) \times 2 \\ &= 4 \times 2 \\ &= 8 \end{aligned}$$

$$\begin{aligned} & (7 \times (3 + 5)) \div 4 - 10 + 2 \times 6 \\ &= (7 \times 8) \div 4 - 10 + 2 \times 6 \\ &= 56 \div 4 - 10 + 2 \times 6 \\ &= 14 - 10 + 2 \times 6 \\ &= 14 - 10 + 12 \\ &= 4 + 12 \\ &= 16 \end{aligned}$$

$$\begin{aligned} & 5 \times (7 - 2 + 10) \div (6 + 8 - 9) \\ &= 5 \times (5 + 10) \div (6 + 8 - 9) \\ &= 5 \times 15 \div (6 + 8 - 9) \\ &= 5 \times 15 \div (14 - 9) \\ &= 5 \times 15 \div 5 \\ &= 75 \div 5 \\ &= 15 \end{aligned}$$

$$\begin{aligned} & 8 + 3 \div (5 - 2) \times (10 + 4) \times 6 \\ &= 8 + 3 \div 3 \times (10 + 4) \times 6 \\ &= 8 + 3 \div 3 \times 14 \times 6 \\ &= 8 + 1 \times 14 \times 6 \\ &= 8 + 14 \times 6 \\ &= 8 + 84 \\ &= 92 \end{aligned}$$

$$\begin{aligned} & (6 \times (9 - 3)) \div 4 + 7 \div (5 + 2) \\ &= (6 \times 6) \div 4 + 7 \div (5 + 2) \\ &= 36 \div 4 + 7 \div (5 + 2) \\ &= 36 \div 4 + 7 \div 7 \\ &= 9 + 7 \div 7 \\ &= 9 + 1 \\ &= 10 \end{aligned}$$

$$\begin{aligned} & 10 \times (5 + 3 - 8) \div (7 + 4 - 2) \\ &= 10 \times (8 - 8) \div (7 + 4 - 2) \\ &= 10 \times 0 \div (7 + 4 - 2) \\ &= 10 \times 0 \div (11 - 2) \\ &= 10 \times 0 \div 9 \\ &= 0 \div 9 \\ &= 0 \end{aligned}$$