

# Order of Operations (I)

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

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

Simplify each expression using the correct order of operations.

$$(8 \div 2) \times (3^2 + 9 - 4)$$

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

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

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

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

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

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

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

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (8 \div 2) \times (3^2 + 9 - 4) \\ & = 4 \times (3^2 + 9 - 4) \\ & = 4 \times (9 + 9 - 4) \\ & = 4 \times (18 - 4) \\ & = 4 \times 14 \\ & = 56 \end{aligned}$$

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

$$\begin{aligned} & (4 - 2^2) \div (6 \times 9 + 5) \\ & = (4 - 4) \div (6 \times 9 + 5) \\ & = 0 \div (6 \times 9 + 5) \\ & = 0 \div (54 + 5) \\ & = 0 \div 59 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & 2^2 + 10 \times 6 \div (9 - 8) \\ & = 2^2 + 10 \times 6 \div 1 \\ & = 4 + 10 \times 6 \div 1 \\ & = 4 + 60 \div 1 \\ & = 4 + 60 \\ & = 64 \end{aligned}$$

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

$$\begin{aligned} & (6 + 2 \times 5^2 - 8) \div 3 \\ & = (6 + 2 \times 25 - 8) \div 3 \\ & = (6 + 50 - 8) \div 3 \\ & = (56 - 8) \div 3 \\ & = 48 \div 3 \\ & = 16 \end{aligned}$$

$$\begin{aligned} & 8 \times (4^2 \div (6 - 5 + 7)) \\ & = 8 \times (4^2 \div (1 + 7)) \\ & = 8 \times (4^2 \div 8) \\ & = 8 \times (16 \div 8) \\ & = 8 \times 2 \\ & = 16 \end{aligned}$$

$$\begin{aligned} & (6 + 10 - 2^2) \times 8 \div 3 \\ & = (6 + 10 - 4) \times 8 \div 3 \\ & = (16 - 4) \times 8 \div 3 \\ & = 12 \times 8 \div 3 \\ & = 96 \div 3 \\ & = 32 \end{aligned}$$