

Order of Operations (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

$$(9 - 5 + 8) \div 4 \times 2^2$$

$$4 + 6 \times 2 \div (9 - 8)^2$$

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

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

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

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$$\begin{aligned} & (3^2 \div 9) \times 7 + 4 - 5 \\ & = (9 \div 9) \times 7 + 4 - 5 \\ & = 1 \times 7 + 4 - 5 \\ & = 7 + 4 - 5 \\ & = 11 - 5 \\ & = 6 \end{aligned}$$

$$\begin{aligned} & 10 \div 5 \times (7 - 2 + 4^2) \\ & = 10 \div 5 \times (7 - 2 + 16) \\ & = 10 \div 5 \times (5 + 16) \\ & = 10 \div 5 \times 21 \\ & = 2 \times 21 \\ & = 42 \end{aligned}$$

$$\begin{aligned} & 7 + 9 \div (5 - 4) \times 2^2 \\ & = 7 + 9 \div 1 \times 2^2 \\ & = 7 + 9 \div 1 \times 4 \\ & = 7 + 9 \times 4 \\ & = 7 + 36 \\ & = 43 \end{aligned}$$

$$\begin{aligned} & (9 - 5 + 8) \div 4 \times 2^2 \\ & = (4 + 8) \div 4 \times 2^2 \\ & = 12 \div 4 \times 2^2 \\ & = 12 \div 4 \times 4 \\ & = 3 \times 4 \\ & = 12 \end{aligned}$$

$$\begin{aligned} & 4 + 6 \times 2 \div (9 - 8)^2 \\ & = 4 + 6 \times 2 \div 1^2 \\ & = 4 + 6 \times 2 \div 1 \\ & = 4 + 12 \div 1 \\ & = 4 + 12 \\ & = 16 \end{aligned}$$

$$\begin{aligned} & 4 \times (9 \div 3 + 2^3 - 5) \\ & = 4 \times (9 \div 3 + 8 - 5) \\ & = 4 \times (3 + 8 - 5) \\ & = 4 \times (11 - 5) \\ & = 4 \times 6 \\ & = 24 \end{aligned}$$

$$\begin{aligned} & (7 \times 2) \div (5 + 4 - 8)^3 \\ & = 14 \div (5 + 4 - 8)^3 \\ & = 14 \div (9 - 8)^3 \\ & = 14 \div 1^3 \\ & = 14 \div 1 \\ & = 14 \end{aligned}$$

$$\begin{aligned} & 2 + 4 \times 7 \div (6^2 - 8) \\ & = 2 + 4 \times 7 \div (36 - 8) \\ & = 2 + 4 \times 7 \div 28 \\ & = 2 + 28 \div 28 \\ & = 2 + 1 \\ & = 3 \end{aligned}$$