

Order of Operations (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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$$\begin{aligned} & 2 \times ((\underline{6-5} + 3)^2 \div 4^2) \\ & = 2 \times ((\underline{1+3})^2 \div 4^2) \\ & = 2 \times (\underline{4^2} \div 4^2) \\ & = 2 \times (\underline{16 \div 4^2}) \\ & = 2 \times (\underline{16 \div 16}) \\ & = \underline{2 \times 1} \\ & = 2 \end{aligned}$$

$$\begin{aligned} & (\underline{10 \times 8}) \div (7 - 2^2 + 5) \times 4 \\ & = 80 \div (7 - \underline{2^2} + 5) \times 4 \\ & = 80 \div (\underline{7-4} + 5) \times 4 \\ & = 80 \div (\underline{3+5}) \times 4 \\ & = \underline{80 \div 8} \times 4 \\ & = \underline{10 \times 4} \\ & = 40 \end{aligned}$$

$$\begin{aligned} & 10 - 9 + 8 \times 6 \div (5 - \underline{2^2}) \\ & = 10 - 9 + 8 \times 6 \div (\underline{5-4}) \\ & = 10 - 9 + \underline{8 \times 6} \div 1 \\ & = 10 - 9 + \underline{48 \div 1} \\ & = \underline{10-9} + 48 \\ & = \underline{1+48} \\ & = 49 \end{aligned}$$

$$\begin{aligned} & 3 \times (\underline{8-4})^2 \div 6 + 2 + 5 \\ & = 3 \times \underline{4^2} \div 6 + 2 + 5 \\ & = \underline{3 \times 16} \div 6 + 2 + 5 \\ & = \underline{48 \div 6} + 2 + 5 \\ & = \underline{8+2} + 5 \\ & = \underline{10+5} \\ & = 15 \end{aligned}$$

$$\begin{aligned} & (4 \div (\underline{10-6})) \times 7 + 2^2 + 5 \\ & = (\underline{4 \div 4}) \times 7 + 2^2 + 5 \\ & = 1 \times 7 + \underline{2^2} + 5 \\ & = \underline{1 \times 7} + 4 + 5 \\ & = \underline{7+4} + 5 \\ & = \underline{11+5} \\ & = 16 \end{aligned}$$

$$\begin{aligned} & 10 - 4 + 3^2 \times 6 \div (\underline{7+2}) \\ & = 10 - 4 + \underline{3^2} \times 6 \div 9 \\ & = 10 - 4 + \underline{9 \times 6} \div 9 \\ & = 10 - 4 + \underline{54 \div 9} \\ & = \underline{10-4} + 6 \\ & = \underline{6+6} \\ & = 12 \end{aligned}$$