

Order of Operations (A)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

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

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

$$8 \div (10 - 9)^3 \times 7 + 4^2$$

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

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

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

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$$\begin{aligned} & (\underline{10 + 2} - 5) \times (6^2 \div (8 - 4)) \\ & = (\underline{12 - 5}) \times (6^2 \div (8 - 4)) \\ & = 7 \times (6^2 \div (\underline{8 - 4})) \\ & = 7 \times (\underline{6^2} \div 4) \\ & = 7 \times (\underline{36} \div 4) \\ & = \underline{7 \times 9} \\ & = 63 \end{aligned}$$

$$\begin{aligned} & 10 + 8 - 6^2 \div (\underline{3^2} \times 4) \\ & = 10 + 8 - 6^2 \div (\underline{9 \times 4}) \\ & = 10 + 8 - \underline{6^2} \div 36 \\ & = 10 + 8 - \underline{36} \div 36 \\ & = \underline{10 + 8} - 1 \\ & = \underline{18 - 1} \\ & = 17 \end{aligned}$$

$$\begin{aligned} & 8 \div (\underline{10 - 9})^3 \times 7 + 4^2 \\ & = 8 \div \underline{1^3} \times 7 + 4^2 \\ & = 8 \div 1 \times 7 + \underline{4^2} \\ & = \underline{8 \div 1} \times 7 + 16 \\ & = \underline{8 \times 7} + 16 \\ & = \underline{56 + 16} \\ & = 72 \end{aligned}$$

$$\begin{aligned} & (10 \times (\underline{6 + 4})) \div (2^3 - 7)^2 \\ & = (\underline{10 \times 10}) \div (2^3 - 7)^2 \\ & = 100 \div (\underline{2^3} - 7)^2 \\ & = 100 \div (\underline{8 - 7})^2 \\ & = 100 \div \underline{1^2} \\ & = \underline{100 \div 1} \\ & = 100 \end{aligned}$$

$$\begin{aligned} & (8 + \underline{5^2}) \times ((9 - 7)^2 \div 2) \\ & = (\underline{8 + 25}) \times ((9 - 7)^2 \div 2) \\ & = 33 \times ((\underline{9 - 7})^2 \div 2) \\ & = 33 \times (\underline{2^2} \div 2) \\ & = 33 \times (\underline{4} \div 2) \\ & = \underline{33 \times 2} \\ & = 66 \end{aligned}$$

$$\begin{aligned} & (\underline{3 + 9}) \div 6 - 2 \times 8 \div 4^2 \\ & = 12 \div 6 - 2 \times 8 \div \underline{4^2} \\ & = \underline{12 \div 6} - 2 \times 8 \div 16 \\ & = 2 - \underline{2 \times 8} \div 16 \\ & = 2 - \underline{16} \div 16 \\ & = \underline{2 - 1} \\ & = 1 \end{aligned}$$