

## Order of Operations (E)

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

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

Solve each expression using the correct order of operations.

$$8 + 5 - 3 \times 2^3 \div (9 - 6)$$

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

$$(10^2 \div (6 + 8 - 9)^2) \times 4$$

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

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

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

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Solve each expression using the correct order of operations.

$$\begin{aligned} & 8 + 5 - 3 \times 2^3 \div (9 - 6) \\ & = 8 + 5 - 3 \times \underline{2^3} \div 3 \\ & = 8 + 5 - \underline{3 \times 8} \div 3 \\ & = 8 + 5 - \underline{24 \div 3} \\ & = \underline{8 + 5} - 8 \\ & = \underline{13 - 8} \\ & = 5 \end{aligned}$$

$$\begin{aligned} & (\underline{3^2} + 7 - 9) \times (4^3 \div 8) \\ & = (\underline{9 + 7} - 9) \times (4^3 \div 8) \\ & = (\underline{16 - 9}) \times (4^3 \div 8) \\ & = 7 \times (\underline{4^3} \div 8) \\ & = 7 \times (\underline{64 \div 8}) \\ & = \underline{7 \times 8} \\ & = 56 \end{aligned}$$

$$\begin{aligned} & (10^2 \div (\underline{6 + 8} - 9)^2) \times 4 \\ & = (10^2 \div (\underline{14 - 9})^2) \times 4 \\ & = (\underline{10^2} \div 5^2) \times 4 \\ & = (100 \div \underline{5^2}) \times 4 \\ & = (\underline{100 \div 25}) \times 4 \\ & = \underline{4 \times 4} \\ & = 16 \end{aligned}$$

$$\begin{aligned} & (4 - \underline{2^2}) \times 3 \div 7 + 8^2 \\ & = (\underline{4 - 4}) \times 3 \div 7 + 8^2 \\ & = 0 \times 3 \div 7 + \underline{8^2} \\ & = \underline{0 \times 3} \div 7 + 64 \\ & = \underline{0 \div 7} + 64 \\ & = \underline{0 + 64} \\ & = 64 \end{aligned}$$

$$\begin{aligned} & (\underline{10 \times 6}) \div (4^2 - 5 + 3^2) \\ & = 60 \div (\underline{4^2} - 5 + 3^2) \\ & = 60 \div (16 - 5 + \underline{3^2}) \\ & = 60 \div (\underline{16 - 5} + 9) \\ & = 60 \div (\underline{11 + 9}) \\ & = \underline{60 \div 20} \\ & = 3 \end{aligned}$$

$$\begin{aligned} & (\underline{3^2} \times 4) \div 6 + 5^2 - 2 \\ & = (\underline{9 \times 4}) \div 6 + 5^2 - 2 \\ & = 36 \div 6 + \underline{5^2} - 2 \\ & = \underline{36 \div 6} + 25 - 2 \\ & = \underline{6 + 25} - 2 \\ & = \underline{31 - 2} \\ & = 29 \end{aligned}$$