

Order of Operations (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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

$$(3^2 - 7 + 5) \times 10$$

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

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

$$\begin{aligned}(\underline{10 \div 5} + 2)^2 \times 4 \\&= (\underline{2 + 2})^2 \times 4 \\&= \underline{4^2} \times 4 \\&= \underline{16 \times 4} \\&= 64\end{aligned}$$

$$\begin{aligned}3 \times (8 + 7 - 2^2) \\&= 3 \times (\underline{8 + 7} - 4) \\&= 3 \times (\underline{15 - 4}) \\&= \underline{3 \times 11} \\&= 33\end{aligned}$$

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

$$\begin{aligned}4 \div (\underline{5^2} - 8 \times 3) \\&= 4 \div (25 - \underline{8 \times 3}) \\&= 4 \div (\underline{25 - 24}) \\&= \underline{4 \div 1} \\&= 4\end{aligned}$$

$$\begin{aligned}6^2 \div (\underline{10 + 4} - 8) \\&= 6^2 \div (\underline{14 - 8}) \\&= \underline{6^2} \div 6 \\&= \underline{36 \div 6} \\&= 6\end{aligned}$$

$$\begin{aligned}(\underline{10^2} - 7 + 3) \div 6 \\&= (\underline{100 - 7} + 3) \div 6 \\&= (\underline{93 + 3}) \div 6 \\&= \underline{96 \div 6} \\&= 16\end{aligned}$$

$$\begin{aligned}4 \times (6 + 9 - \underline{3^2}) \\&= 4 \times (\underline{6 + 9} - 9) \\&= 4 \times (\underline{15 - 9}) \\&= \underline{4 \times 6} \\&= 24\end{aligned}$$

$$\begin{aligned}(\underline{3^2} - 7 + 5) \times 10 \\&= (\underline{9 - 7} + 5) \times 10 \\&= (\underline{2 + 5}) \times 10 \\&= \underline{7 \times 10} \\&= 70\end{aligned}$$

$$\begin{aligned}10 \times (\underline{2^3} + 7 - 6) \\&= 10 \times (\underline{8 + 7} - 6) \\&= 10 \times (\underline{15 - 6}) \\&= \underline{10 \times 9} \\&= 90\end{aligned}$$