

Order of Operations (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

$$5^2 + 7 \times (10 - 9)$$

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

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

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

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

$$6 \times (3 + 9 - 10)^3$$

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

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$$\begin{aligned}6^2 \div (5 + 4 - 8) \\&= 6^2 \div (9 - 8) \\&= \underline{6^2} \div 1 \\&= \underline{36} \div 1 \\&= 36\end{aligned}$$

$$\begin{aligned}2 \times (3^2 - 4) \div 5 \\&= 2 \times (9 - 4) \div 5 \\&= \underline{2 \times 5} \div 5 \\&= \underline{10} \div 5 \\&= 2\end{aligned}$$

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

$$\begin{aligned}5^2 + 7 \times (10 - 9) \\&= \underline{5^2} + 7 \times 1 \\&= 25 + \underline{7 \times 1} \\&= \underline{25 + 7} \\&= 32\end{aligned}$$

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

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

$$\begin{aligned}(5 - 4) \times (3^2 + 7) \\&= 1 \times (\underline{3^2} + 7) \\&= 1 \times (\underline{9 + 7}) \\&= \underline{1} \times 16 \\&= 16\end{aligned}$$

$$\begin{aligned}(9 + 2^3 - 3) \times 6 \\&= (\underline{9 + 8} - 3) \times 6 \\&= (\underline{17 - 3}) \times 6 \\&= \underline{14} \times 6 \\&= 84\end{aligned}$$

$$\begin{aligned}6 \times (3 + 9 - 10)^3 \\&= 6 \times (\underline{12 - 10})^3 \\&= 6 \times \underline{2^3} \\&= \underline{6} \times 8 \\&= 48\end{aligned}$$

$$\begin{aligned}(4 + 2 - 3)^2 \times 9 \\&= (\underline{6 - 3})^2 \times 9 \\&= \underline{3^2} \times 9 \\&= \underline{9} \times 9 \\&= 81\end{aligned}$$