

Order of Operations (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

$$(5 \times 3 + 9) \div (4^2 - 10)$$

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

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

$$(9 + 5 - 6) \times (4^3 \div 8)$$

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$$\begin{aligned}(9 - 2^2 + 10 \times 8) \div 5 \\ &= (9 - 4 + 10 \times 8) \div 5 \\ &= (9 - 4 + 80) \div 5 \\ &= (5 + 80) \div 5 \\ &= 85 \div 5 \\ &= 17\end{aligned}$$

$$\begin{aligned}9 + 4 \times (3^3 - 7) \div 8 \\ &= 9 + 4 \times (27 - 7) \div 8 \\ &= 9 + 4 \times 20 \div 8 \\ &= 9 + 80 \div 8 \\ &= 9 + 10 \\ &= 19\end{aligned}$$

$$\begin{aligned}(4^2 \times 2) \div (10 - 5 + 3) \\ &= (16 \times 2) \div (10 - 5 + 3) \\ &= 32 \div (10 - 5 + 3) \\ &= 32 \div (5 + 3) \\ &= 32 \div 8 \\ &= 4\end{aligned}$$

$$\begin{aligned}(4^3 \div 2 + 7 - 8) \times 3 \\ &= (64 \div 2 + 7 - 8) \times 3 \\ &= (32 + 7 - 8) \times 3 \\ &= (39 - 8) \times 3 \\ &= 31 \times 3 \\ &= 93\end{aligned}$$

$$\begin{aligned}(5 \times 3 + 9) \div (4^2 - 10) \\ &= (15 + 9) \div (4^2 - 10) \\ &= 24 \div (4^2 - 10) \\ &= 24 \div (16 - 10) \\ &= 24 \div 6 \\ &= 4\end{aligned}$$

$$\begin{aligned}((9 + 3 - 8) \times 10) \div 2^2 \\ &= ((12 - 8) \times 10) \div 2^2 \\ &= (4 \times 10) \div 2^2 \\ &= 40 \div 2^2 \\ &= 40 \div 4 \\ &= 10\end{aligned}$$

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

$$\begin{aligned}(9 + 5 - 6) \times (4^3 \div 8) \\ &= (14 - 6) \times (4^3 \div 8) \\ &= 8 \times (4^3 \div 8) \\ &= 8 \times (64 \div 8) \\ &= 8 \times 8 \\ &= 64\end{aligned}$$