

Order of Operations (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(7 + 5^2 - 8) \times (6 \div 3)$$

$$10^2 - 6 \times (8 \div (5 + 3))$$

$$(5 \times (3 + 9 - 8)^2) \div 10$$

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

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

$$(7 \times 2 + 10) \div (5 - 4)^3$$

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

$$(5 + 3^3 \div 9) \times 2 - 7$$

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$$\begin{aligned}(7 + 5^2 - 8) \times (6 \div 3) \\ &= (7 + 25 - 8) \times (6 \div 3) \\ &= (32 - 8) \times (6 \div 3) \\ &= 24 \times (6 \div 3) \\ &= 24 \times 2 \\ &= 48\end{aligned}$$

$$\begin{aligned}10^2 - 6 \times (8 \div (5 + 3)) \\ &= 10^2 - 6 \times (8 \div 8) \\ &= 10^2 - 6 \times 1 \\ &= 100 - 6 \times 1 \\ &= 100 - 6 \\ &= 94\end{aligned}$$

$$\begin{aligned}(5 \times (3 + 9 - 8)^2) \div 10 \\ &= (5 \times (12 - 8)^2) \div 10 \\ &= (5 \times 4^2) \div 10 \\ &= (5 \times 16) \div 10 \\ &= 80 \div 10 \\ &= 8\end{aligned}$$

$$\begin{aligned}10 - 9 + 6 \times (4^2 \div 2) \\ &= 10 - 9 + 6 \times (16 \div 2) \\ &= 10 - 9 + 6 \times 8 \\ &= 10 - 9 + 48 \\ &= 1 + 48 \\ &= 49\end{aligned}$$

$$\begin{aligned}(10 + 5) \div (6 - 3) \times 2^3 \\ &= 15 \div (6 - 3) \times 2^3 \\ &= 15 \div 3 \times 2^3 \\ &= 5 \times 8 \\ &= 40\end{aligned}$$

$$\begin{aligned}(7 \times 2 + 10) \div (5 - 4)^3 \\ &= (14 + 10) \div (5 - 4)^3 \\ &= 24 \div (5 - 4)^3 \\ &= 24 \div 1^3 \\ &= 24 \div 1 \\ &= 24\end{aligned}$$

$$\begin{aligned}(10 \times 3^2) \div 2 + 6 - 8 \\ &= (10 \times 9) \div 2 + 6 - 8 \\ &= 90 \div 2 + 6 - 8 \\ &= 45 + 6 - 8 \\ &= 51 - 8 \\ &= 43\end{aligned}$$

$$\begin{aligned}(5 + 3^3 \div 9) \times 2 - 7 \\ &= (5 + 27 \div 9) \times 2 - 7 \\ &= (5 + 3) \times 2 - 7 \\ &= 8 \times 2 - 7 \\ &= 16 - 7 \\ &= 9\end{aligned}$$