

Order of Operations (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(10 \times (8 - 3)) \div (6 + 4 - 5) \times 7$$

$$(9 \times 8) \div (6 - 5 + 3 + 4 - 7)$$

$$((8 \div 2) \times (5 + 6 - 9 + 7)) \div 4$$

$$(9 \div (7 - 6)) \times 5 + 4 - 2 + 8$$

$$(8 \times (9 - 2)) \div (4 + 3 + 6 - 5)$$

$$7 \times 2 + 10 \div (5 - 4) \times (9 - 8)$$

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$$\begin{aligned}(10 \times (8 - 3)) \div (6 + 4 - 5) \times 7 \\ &= (10 \times 5) \div (6 + 4 - 5) \times 7 \\ &= 50 \div (6 + 4 - 5) \times 7 \\ &= 50 \div (10 - 5) \times 7 \\ &= 50 \div 5 \times 7 \\ &= 10 \times 7 \\ &= 70\end{aligned}$$

$$\begin{aligned}(9 \times 8) \div (6 - 5 + 3 + 4 - 7) \\ &= 72 \div (6 - 5 + 3 + 4 - 7) \\ &= 72 \div (1 + 3 + 4 - 7) \\ &= 72 \div (4 + 4 - 7) \\ &= 72 \div (8 - 7) \\ &= 72 \div 1 \\ &= 72\end{aligned}$$

$$\begin{aligned}((8 \div 2) \times (5 + 6 - 9 + 7)) \div 4 \\ &= (4 \times (5 + 6 - 9 + 7)) \div 4 \\ &= (4 \times (11 - 9 + 7)) \div 4 \\ &= (4 \times (2 + 7)) \div 4 \\ &= (4 \times 9) \div 4 \\ &= 36 \div 4 \\ &= 9\end{aligned}$$

$$\begin{aligned}(9 \div (7 - 6)) \times 5 + 4 - 2 + 8 \\ &= (9 \div 1) \times 5 + 4 - 2 + 8 \\ &= 9 \times 5 + 4 - 2 + 8 \\ &= 45 + 4 - 2 + 8 \\ &= 49 - 2 + 8 \\ &= 47 + 8 \\ &= 55\end{aligned}$$

$$\begin{aligned}(8 \times (9 - 2)) \div (4 + 3 + 6 - 5) \\ &= (8 \times 7) \div (4 + 3 + 6 - 5) \\ &= 56 \div (4 + 3 + 6 - 5) \\ &= 56 \div (7 + 6 - 5) \\ &= 56 \div (13 - 5) \\ &= 56 \div 8 \\ &= 7\end{aligned}$$

$$\begin{aligned}7 \times 2 + 10 \div (5 - 4) \times (9 - 8) \\ &= 7 \times 2 + 10 \div 1 \times (9 - 8) \\ &= 7 \times 2 + 10 \div 1 \times 1 \\ &= 14 + 10 \div 1 \times 1 \\ &= 14 + 10 \times 1 \\ &= 14 + 10 \\ &= 24\end{aligned}$$