

Order of Operations (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$9 \times (8 - 2^3 + 7)$$

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

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

$$9 \times (7 + 6 - 3^2)$$

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

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

$$(9 - 3) \div 6 + 5^2$$

$$(6^2 \div 9) \times (5 + 3)$$

$$(7 + 9 - 10)^2 \div 3$$

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

$$\begin{aligned} & (8^2 + 4 - 10) \div 2 \\ &= (64 + 4 - 10) \div 2 \\ &= (68 - 10) \div 2 \\ &= 58 \div 2 \\ &= 29 \end{aligned}$$

$$\begin{aligned} & 9 \times (7 + 6 - 3^2) \\ &= 9 \times (7 + 6 - 9) \\ &= 9 \times (13 - 9) \\ &= 9 \times 4 \\ &= 36 \end{aligned}$$

$$\begin{aligned} & 7 \times (4^2 + 2 - 8) \\ &= 7 \times (16 + 2 - 8) \\ &= 7 \times (18 - 8) \\ &= 7 \times 10 \\ &= 70 \end{aligned}$$

$$\begin{aligned} & (6^2 \div 9) \times (5 + 3) \\ &= (36 \div 9) \times (5 + 3) \\ &= 4 \times (5 + 3) \\ &= 4 \times 8 \\ &= 32 \end{aligned}$$

$$\begin{aligned} & 9 \times (8 - 2^3 + 7) \\ &= 9 \times (8 - 8 + 7) \\ &= 9 \times (0 + 7) \\ &= 9 \times 7 \\ &= 63 \end{aligned}$$

$$\begin{aligned} & (10^2 - 5 \times 4) \div 2 \\ &= (100 - 5 \times 4) \div 2 \\ &= (100 - 20) \div 2 \\ &= 80 \div 2 \\ &= 40 \end{aligned}$$

$$\begin{aligned} & (5 - 2)^3 \times 3 + 8 \\ &= 3^3 \times 3 + 8 \\ &= 27 \times 3 + 8 \\ &= 81 + 8 \\ &= 89 \end{aligned}$$

$$\begin{aligned} & (9 - 3) \div 6 + 5^2 \\ &= 6 \div 6 + 5^2 \\ &= 6 \div 6 + 25 \\ &= 1 + 25 \\ &= 26 \end{aligned}$$

$$\begin{aligned} & (7 + 9 - 10)^2 \div 3 \\ &= (16 - 10)^2 \div 3 \\ &= 6^2 \div 3 \\ &= 36 \div 3 \\ &= 12 \end{aligned}$$