

Order of Operations (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(3^2 + 7 - 4^2) \div (6 \times 2)$$

$$(2^3 \times (6 + 8 - 10)) \div 4^2$$

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

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

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

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

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$$\begin{aligned} & (3^2 + 7 - 4^2) \div (6 \times 2) \\ &= (9 + 7 - 4^2) \div (6 \times 2) \\ &= (9 + 7 - 16) \div (6 \times 2) \\ &= (16 - 16) \div (6 \times 2) \\ &= 0 \div (6 \times 2) \\ &= 0 \div 12 \\ &= 0 \end{aligned}$$

$$\begin{aligned} & (2^3 \times (6 + 8 - 10)) \div 4^2 \\ &= (2^3 \times (14 - 10)) \div 4^2 \\ &= (2^3 \times 4) \div 4^2 \\ &= (8 \times 4) \div 4^2 \\ &= 32 \div 4^2 \\ &= 32 \div 16 \\ &= 2 \end{aligned}$$

$$\begin{aligned} & 8 \div (2^2 + 7 - 9)^2 \times 5 \\ &= 8 \div (4 + 7 - 9)^2 \times 5 \\ &= 8 \div (11 - 9)^2 \times 5 \\ &= 8 \div 2^2 \times 5 \\ &= 8 \div 4 \times 5 \\ &= 2 \times 5 \\ &= 10 \end{aligned}$$

$$\begin{aligned} & ((8 - 5)^2 \div (6 + 3))^3 \times 4 \\ &= (3^2 \div (6 + 3))^3 \times 4 \\ &= (3^2 \div 9)^3 \times 4 \\ &= (9 \div 9)^3 \times 4 \\ &= 1^3 \times 4 \\ &= 1 \times 4 \\ &= 4 \end{aligned}$$

$$\begin{aligned} & 3^2 + 2 \div (6 - 5) \times 4^2 \\ &= 3^2 + 2 \div 1 \times 4^2 \\ &= 9 + 2 \div 1 \times 4^2 \\ &= 9 + 2 \div 1 \times 16 \\ &= 9 + 2 \times 16 \\ &= 9 + 32 \\ &= 41 \end{aligned}$$

$$\begin{aligned} & (9 \div (5 - 4)) \times 3 + 8^2 - 2 \\ &= (9 \div 1) \times 3 + 8^2 - 2 \\ &= 9 \times 3 + 8^2 - 2 \\ &= 9 \times 3 + 64 - 2 \\ &= 27 + 64 - 2 \\ &= 91 - 2 \\ &= 89 \end{aligned}$$