

Orden de Operaciones (G)

Nombre: _____

Fecha: _____

Resuelva cada expresión usando el orden correcto para las operaciones.

$$((-6) \div (-3))^3 \times ((-4) - 6 + (-8) - (-10)) \quad (7^2 - 6 + (-7)) \div ((-9) \times ((-4) \div (-2)))$$

$$((-3)^3 - (-5)) \times ((-8) \div (5 + (-7))^2) \quad ((3 + 7) \div ((-2) - 8))^2 \times 10^2$$

$$(4^2 - 7 + (-9))^3 \div (2 \times 8)$$

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

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Resuelva cada expresión usando el orden correcto para las operaciones.

$$\begin{aligned} & \left(\frac{-6}{-3} \right)^3 \times ((-4) - 6 + (-8) - (-10)) \\ &= 2^3 \times \left(\frac{-4}{-3} - 6 + (-8) - (-10) \right) \\ &= 2^3 \times \left(\frac{-10}{-3} + (-8) - (-10) \right) \\ &= 2^3 \times \left(\frac{-18}{-3} - (-10) \right) \\ &= 2^3 \times (-8) \\ &= 8 \times (-8) \\ &= -64 \end{aligned}$$

$$\begin{aligned} & (7^2 - 6 + (-7)) \div ((-9) \times ((-4) \div (-2))) \\ &= (49 - 6 + (-7)) \div ((-9) \times ((-4) \div (-2))) \\ &= (43 + (-7)) \div ((-9) \times ((-4) \div (-2))) \\ &= 36 \div \left((-9) \times \left(\frac{-4}{-2} \right) \right) \\ &= 36 \div \left(\frac{-9}{1} \times 2 \right) \\ &= \frac{36}{-18} \\ &= -2 \end{aligned}$$

$$\begin{aligned} & \left(\frac{-3}{-3} - (-5) \right) \times \left((-8) \div (5 + (-7))^2 \right) \\ &= \left(\frac{-27}{-3} - (-5) \right) \times \left((-8) \div (5 + (-7))^2 \right) \\ &= (-22) \times \left((-8) \div \left(\frac{5 + (-7)}{1} \right)^2 \right) \\ &= (-22) \times \left((-8) \div \frac{-2}{1} \right) \\ &= (-22) \times \left(\frac{-8}{-2} \right) \\ &= \frac{-22}{1} \times (-2) \\ &= 44 \end{aligned}$$

$$\begin{aligned} & \left(\frac{3 + 7}{-2} \right) \div ((-2) - 8)^2 \times 10^2 \\ &= \left(10 \div \left(\frac{-2 - 8}{1} \right) \right)^2 \times 10^2 \\ &= \left(\frac{10}{-10} \right)^2 \times 10^2 \\ &= \frac{-1}{1}^2 \times 10^2 \\ &= 1 \times 10^2 \\ &= 1 \times 100 \\ &= 100 \end{aligned}$$

$$\begin{aligned} & (4^2 - 7 + (-9))^3 \div (2 \times 8) \\ &= (16 - 7 + (-9))^3 \div (2 \times 8) \\ &= \left(\frac{9 + (-9)}{1} \right)^3 \div (2 \times 8) \\ &= 0^3 \div (2 \times 8) \\ &= 0^3 \div 16 \\ &= 0 \div 16 \\ &= 0 \end{aligned}$$

$$\begin{aligned} & (-5)^2 \times (3 - 4)^3 \div ((-3) + (-2)) \\ &= (-5)^2 \times (-1)^3 \div \left(\frac{-3 + (-2)}{1} \right) \\ &= \frac{-5}{1}^2 \times (-1)^3 \div (-5) \\ &= 25 \times \frac{-1}{1}^3 \div (-5) \\ &= 25 \times (-1) \div (-5) \\ &= \frac{-25}{-5} \\ &= 5 \end{aligned}$$