

Orden de Operaciones (D)

Nombre: _____

Fecha: _____

Resuelva cada expresión usando el orden correcto para las operaciones.

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

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

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

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

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

$$3^2 \times ((-4) + 10 - 2) \div ((-9) \times (-2))$$

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$$\begin{aligned} & (4^3 \times (9 - 3 + (-6)))^3 \div (-5) \\ &= (4^3 \times (6 + (-6)))^3 \div (-5) \\ &= (4^3 \times 0)^3 \div (-5) \\ &= (64 \times 0)^3 \div (-5) \\ &= 0^3 \div (-5) \\ &= 0 \div (-5) \\ &= 0 \end{aligned}$$

$$\begin{aligned} & 8 \div ((-2) - (-6)) \times (9 + (-9)) \times (-4)^2 \\ &= 8 \div 4 \times (9 + (-9)) \times (-4)^2 \\ &= 8 \div 4 \times 0 \times (-4)^2 \\ &= 8 \div 4 \times 0 \times 16 \\ &= 2 \times 0 \times 16 \\ &= 0 \times 16 \\ &= 0 \end{aligned}$$

$$\begin{aligned} & (6^2 \div (-2)) \times (3 - 2^3 + 7) \\ &= (36 \div (-2)) \times (3 - 2^3 + 7) \\ &= (-18) \times (3 - 2^3 + 7) \\ &= (-18) \times (3 - 8 + 7) \\ &= (-18) \times ((-5) + 7) \\ &= (-18) \times 2 \\ &= -36 \end{aligned}$$

$$\begin{aligned} & (5 \div (-5))^2 \times ((-9)^2 + 8 - 7) \\ &= (-1)^2 \times ((-9)^2 + 8 - 7) \\ &= (-1)^2 \times (81 + 8 - 7) \\ &= (-1)^2 \times (89 - 7) \\ &= (-1)^2 \times 82 \\ &= 1 \times 82 \\ &= 82 \end{aligned}$$

$$\begin{aligned} & (2 \div ((-4) - (-2)))^2 \times 7 + (-5) - (-6) \\ &= (2 \div (-2))^2 \times 7 + (-5) - (-6) \\ &= (-1)^2 \times 7 + (-5) - (-6) \\ &= 1 \times 7 + (-5) - (-6) \\ &= 7 + (-5) - (-6) \\ &= 2 - (-6) \\ &= 8 \end{aligned}$$

$$\begin{aligned} & 3^2 \times ((-4) + 10 - 2) \div ((-9) \times (-2)) \\ &= 3^2 \times (6 - 2) \div ((-9) \times (-2)) \\ &= 3^2 \times 4 \div ((-9) \times (-2)) \\ &= 3^2 \times 4 \div 18 \\ &= 9 \times 4 \div 18 \\ &= 36 \div 18 \\ &= 2 \end{aligned}$$