

Order of Operations (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$(3^2 \div (-9) - 6) \times 9 + 10$$

$$(-8) \times ((-2)^3 + 9 - (-10)) \div 8$$

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

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

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

Order of Operations (H) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\begin{aligned} &(3^2 \div (-9) - 6) \times 9 + 10 \\ &= (9 \div (-9) - 6) \times 9 + 10 \\ &= ((-1) - 6) \times 9 + 10 \\ &= (-7) \times 9 + 10 \\ &= (-63) + 10 \\ &= -53 \end{aligned}$$

$$\begin{aligned} &(-8) \times ((-2)^3 + 9 - (-10)) \div 8 \\ &= (-8) \times ((-8) + 9 - (-10)) \div 8 \\ &= (-8) \times (1 - (-10)) \div 8 \\ &= (-8) \times 11 \div 8 \\ &= (-88) \div 8 \\ &= -11 \end{aligned}$$

$$\begin{aligned} &2 \times ((-8) + (-3) \div 3 - (-6))^3 \\ &= 2 \times ((-8) + (-1) - (-6))^3 \\ &= 2 \times ((-9) - (-6))^3 \\ &= 2 \times (-3)^3 \\ &= 2 \times (-27) \\ &= -54 \end{aligned}$$

$$\begin{aligned} &((-6) - 5 + 8) \div 3 \times 4^3 \\ &= ((-11) + 8) \div 3 \times 4^3 \\ &= (-3) \div 3 \times 4^3 \\ &= (-3) \div 3 \times 64 \\ &= (-1) \times 64 \\ &= -64 \end{aligned}$$

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