

Order of Operations (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

$$(2 \times (-10) + (-3)^2 - (-4)) \div (-7)$$

$$(8 + (-8)) \div ((-4)^2 - (-5) \times 7)$$

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

Order of Operations (I) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((-2)^2 \times 3) \div ((-9) - 5 + 2) \\ &= (4 \times 3) \div ((-9) - 5 + 2) \\ &= 12 \div ((-9) - 5 + 2) \\ &= 12 \div ((-14) + 2) \\ &= 12 \div (-12) \\ &= -1 \end{aligned}$$

$$\begin{aligned} & ((-10) + 4^2 \div 2 - 3) \times 8 \\ &= ((-10) + 16 \div 2 - 3) \times 8 \\ &= ((-10) + 8 - 3) \times 8 \\ &= ((-2) - 3) \times 8 \\ &= (-5) \times 8 \\ &= -40 \end{aligned}$$

$$\begin{aligned} & (-10) \div (3^2 - (-3) + (-7)) \times (-9) \\ &= (-10) \div (9 - (-3) + (-7)) \times (-9) \\ &= (-10) \div (12 + (-7)) \times (-9) \\ &= (-10) \div 5 \times (-9) \\ &= (-2) \times (-9) \\ &= 18 \end{aligned}$$

$$\begin{aligned} & (2 \times (-10) + (-3)^2 - (-4)) \div (-7) \\ &= (2 \times (-10) + 9 - (-4)) \div (-7) \\ &= ((-20) + 9 - (-4)) \div (-7) \\ &= ((-11) - (-4)) \div (-7) \\ &= (-7) \div (-7) \\ &= 1 \end{aligned}$$

$$\begin{aligned} & (8 + (-8)) \div ((-4)^2 - (-5) \times 7) \\ &= 0 \div ((-4)^2 - (-5) \times 7) \\ &= 0 \div (16 - (-5) \times 7) \\ &= 0 \div (16 - (-35)) \\ &= 0 \div 51 \\ &= 0 \end{aligned}$$

$$\begin{aligned} & (-4) \times (2 + 3^2 \div 9 - 6) \\ &= (-4) \times (2 + 9 \div 9 - 6) \\ &= (-4) \times (2 + 1 - 6) \\ &= (-4) \times (3 - 6) \\ &= (-4) \times (-3) \\ &= 12 \end{aligned}$$