

Order of Operations (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

$$10 \div (-2) \times (3 - 5 + 6)^2$$

$$(-3)^2 \times (5 + (-6) - 9) \div 2$$

Order of Operations (F) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 2 \times ((-5) + 6 - (-7)) \div (-2)^2 \\ &= 2 \times (1 - (-7)) \div (-2)^2 \\ &= 2 \times 8 \div (-2)^2 \\ &= \underline{2 \times 8} \div 4 \\ &= \underline{16 \div 4} \\ &= 4 \end{aligned}$$

$$\begin{aligned} & ((-4) \times (-3)^2) \div 4 + 6 - (-10) \\ &= ((-4) \times 9) \div 4 + 6 - (-10) \\ &= \underline{(-36) \div 4} + 6 - (-10) \\ &= \underline{(-9) + 6} - (-10) \\ &= \underline{(-3) - (-10)} \\ &= 7 \end{aligned}$$

$$\begin{aligned} & (-4)^3 - (-8) \times (5 + \underline{6 \div (-3)}) \\ &= (-4)^3 - (-8) \times (5 + \underline{(-2)}) \\ &= \underline{(-4)^3} - (-8) \times 3 \\ &= (-64) - \underline{(-8) \times 3} \\ &= \underline{(-64) - (-24)} \\ &= -40 \end{aligned}$$

$$\begin{aligned} & ((-10) \times 9) \div (-9) + 10 - 4^2 \\ &= (-90) \div (-9) + 10 - \underline{4^2} \\ &= \underline{(-90) \div (-9)} + 10 - 16 \\ &= \underline{10 + 10} - 16 \\ &= \underline{20 - 16} \\ &= 4 \end{aligned}$$

$$\begin{aligned} & 10 \div (-2) \times (3 - 5 + 6)^2 \\ &= 10 \div (-2) \times (\underline{(-2) + 6})^2 \\ &= 10 \div (-2) \times \underline{4^2} \\ &= \underline{10 \div (-2)} \times 16 \\ &= \underline{(-5) \times 16} \\ &= -80 \end{aligned}$$

$$\begin{aligned} & (-3)^2 \times (5 + \underline{(-6)} - 9) \div 2 \\ &= (-3)^2 \times (\underline{(-1) - 9}) \div 2 \\ &= \underline{(-3)^2} \times (-10) \div 2 \\ &= \underline{9 \times (-10)} \div 2 \\ &= \underline{(-90) \div 2} \\ &= -45 \end{aligned}$$