

Order of Operations (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((-5) - 9 \div (7 + (-6)))^3 \times (-4)$$

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

$$((-8) + (-6) - (-7)) \times ((-3)^3 \div (-9))$$

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

$$(-3) + (-8) \times (-7) \div (5 - 4)^3$$

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

Order of Operations (E) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left((-5) - 9 \div \left(\underline{7 + (-6)} \right)^3 \right) \times (-4) \\ & = \left((-5) - 9 \div \underline{1^3} \right) \times (-4) \\ & = \left((-5) - \underline{9 \div 1} \right) \times (-4) \\ & = \left(\underline{(-5) - 9} \right) \times (-4) \\ & = \underline{(-14) \times (-4)} \\ & = 56 \end{aligned}$$

$$\begin{aligned} & (-10) \div (5 - \underline{3^2} + 2) \times (-2) \\ & = (-10) \div (\underline{5 - 9} + 2) \times (-2) \\ & = (-10) \div \left(\underline{(-4) + 2} \right) \times (-2) \\ & = \underline{(-10) \div (-2)} \times (-2) \\ & = \underline{5 \times (-2)} \\ & = -10 \end{aligned}$$

$$\begin{aligned} & \left(\underline{(-8) + (-6)} - (-7) \right) \times \left((-3)^3 \div (-9) \right) \\ & = \left(\underline{(-14) - (-7)} \right) \times \left((-3)^3 \div (-9) \right) \\ & = (-7) \times \left(\underline{(-3)^3} \div (-9) \right) \\ & = (-7) \times \left(\underline{(-27) \div (-9)} \right) \\ & = \underline{(-7) \times 3} \\ & = -21 \end{aligned}$$

$$\begin{aligned} & \left(\underline{(-4) + (-2)} \right)^2 \div 4 - (-7) \times 10 \\ & = \underline{(-6)^2} \div 4 - (-7) \times 10 \\ & = \underline{36 \div 4} - (-7) \times 10 \\ & = 9 - \underline{(-7) \times 10} \\ & = \underline{9 - (-70)} \\ & = 79 \end{aligned}$$

$$\begin{aligned} & (-3) + (-8) \times (-7) \div \underline{(5 - 4)^3} \\ & = (-3) + (-8) \times (-7) \div \underline{1^3} \\ & = (-3) + \underline{(-8) \times (-7)} \div 1 \\ & = (-3) + \underline{56 \div 1} \\ & = \underline{(-3) + 56} \\ & = 53 \end{aligned}$$

$$\begin{aligned} & \left((-10) \times (-2) + 2 - \underline{4^3} \right) \div 7 \\ & = \left(\underline{(-10) \times (-2)} + 2 - 64 \right) \div 7 \\ & = \left(\underline{20 + 2} - 64 \right) \div 7 \\ & = \left(\underline{22 - 64} \right) \div 7 \\ & = \underline{(-42) \div 7} \\ & = -6 \end{aligned}$$