

# Order of Operations (G)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

$$10 \times (((-6) + (-2) - (-8)) \div 5)^2$$

$$5 \div (6 \times 2 + (-4) - 9)^3$$

$$5 \div ((-8) - (-9)) \times (-5) + 4^2$$

$$(-3) \times (7 - 3 + 2^3 \div 8)$$

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

$$((-7) - (-10) \div 2 + 3)^2 \times (-6)$$

# Order of Operations (G) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 10 \times \left( \left( \underline{(-6) + (-2)} - (-8) \right) \div 5 \right)^2 \\ & = 10 \times \left( \left( \underline{(-8) - (-8)} \right) \div 5 \right)^2 \\ & = 10 \times \left( \underline{0 \div 5} \right)^2 \\ & = 10 \times \underline{0^2} \\ & = \underline{10 \times 0} \\ & = 0 \end{aligned}$$

$$\begin{aligned} & 5 \div \left( \underline{6 \times 2} + (-4) - 9 \right)^3 \\ & = 5 \div \left( \underline{12 + (-4)} - 9 \right)^3 \\ & = 5 \div \left( \underline{8 - 9} \right)^3 \\ & = 5 \div \left( \underline{-1} \right)^3 \\ & = \underline{5 \div (-1)} \\ & = -5 \end{aligned}$$

$$\begin{aligned} & 5 \div \left( \underline{(-8) - (-9)} \right) \times (-5) + 4^2 \\ & = 5 \div 1 \times (-5) + \underline{4^2} \\ & = \underline{5 \div 1} \times (-5) + 16 \\ & = \underline{5 \times (-5)} + 16 \\ & = \underline{(-25) + 16} \\ & = -9 \end{aligned}$$

$$\begin{aligned} & (-3) \times \left( 7 - 3 + \underline{2^3} \div 8 \right) \\ & = (-3) \times \left( 7 - 3 + \underline{8 \div 8} \right) \\ & = (-3) \times \left( \underline{7 - 3} + 1 \right) \\ & = (-3) \times \left( \underline{4 + 1} \right) \\ & = \underline{(-3) \times 5} \\ & = -15 \end{aligned}$$

$$\begin{aligned} & (-2) - 4^2 \div (-4) \times \left( \underline{(-5) + 2} \right) \\ & = (-2) - \underline{4^2} \div (-4) \times (-3) \\ & = (-2) - \underline{16 \div (-4)} \times (-3) \\ & = (-2) - \underline{(-4) \times (-3)} \\ & = \underline{(-2) - 12} \\ & = -14 \end{aligned}$$

$$\begin{aligned} & \left( (-7) - \underline{(-10) \div 2} + 3 \right)^2 \times (-6) \\ & = \left( \underline{(-7) - (-5)} + 3 \right)^2 \times (-6) \\ & = \left( \underline{(-2) + 3} \right)^2 \times (-6) \\ & = \underline{1^2} \times (-6) \\ & = \underline{1 \times (-6)} \\ & = -6 \end{aligned}$$