

# Order of Operations with Decimals (G)

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

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

Simplify each expression using the correct order of operations.

$$((-9.8) - (-7.8) + 8.6)^2 \div (1.1 \times 4.5)$$

$$((-5.2) \div (-0.4)) \times 2.3 + 2.7 - (-0.9)^2$$

$$((-3.4) + (-7.9)) \times (-3.7) \div 7.4 - (-2.8)^2$$

$$((-0.7) \times (-0.3) - (1.9)^2) \div 0.8 + 7.2$$

$$8.3 + (-1.1) \div (-2.2) \times ((-3.1) - 6.3)^2$$

$$(7.1 \times 3.7 - (-4.5)^2 + 0.7) \div (-0.6)$$

# Order of Operations with Decimals (G) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \underline{(-9.8) - (-7.8)} + 8.6 \right)^2 \div (1.1 \times 4.5) \\ & = \left( \underline{(-2) + 8.6} \right)^2 \div (1.1 \times 4.5) \\ & = (6.6)^2 \div \underline{(1.1 \times 4.5)} \\ & = \underline{(6.6)^2} \div 4.95 \\ & = \underline{43.56 \div 4.95} \\ & = 8.8 \end{aligned}$$

$$\begin{aligned} & \left( \underline{(-5.2) \div (-0.4)} \right) \times 2.3 + 2.7 - (-0.9)^2 \\ & = 13 \times 2.3 + 2.7 - \underline{(-0.9)^2} \\ & = \underline{13 \times 2.3} + 2.7 - 0.81 \\ & = \underline{29.9 + 2.7} - 0.81 \\ & = \underline{32.6 - 0.81} \\ & = 31.79 \end{aligned}$$

$$\begin{aligned} & \left( \underline{(-3.4) + (-7.9)} \right) \times (-3.7) \div 7.4 - (-2.8)^2 \\ & = (-11.3) \times (-3.7) \div 7.4 - \underline{(-2.8)^2} \\ & = \underline{(-11.3) \times (-3.7)} \div 7.4 - 7.84 \\ & = \underline{41.81 \div 7.4} - 7.84 \\ & = \underline{5.65 - 7.84} \\ & = -2.19 \end{aligned}$$

$$\begin{aligned} & \left( (-0.7) \times (-0.3) - \underline{(1.9)^2} \right) \div 0.8 + 7.2 \\ & = \left( \underline{(-0.7) \times (-0.3)} - 3.61 \right) \div 0.8 + 7.2 \\ & = \underline{(0.21 - 3.61)} \div 0.8 + 7.2 \\ & = \underline{(-3.4) \div 0.8} + 7.2 \\ & = \underline{(-4.25) + 7.2} \\ & = 2.95 \end{aligned}$$

$$\begin{aligned} & 8.3 + (-1.1) \div (-2.2) \times \left( \underline{(-3.1) - 6.3} \right)^2 \\ & = 8.3 + (-1.1) \div (-2.2) \times \underline{(-9.4)^2} \\ & = 8.3 + \underline{(-1.1) \div (-2.2)} \times 88.36 \\ & = 8.3 + \underline{0.5 \times 88.36} \\ & = \underline{8.3 + 44.18} \\ & = 52.48 \end{aligned}$$

$$\begin{aligned} & \left( 7.1 \times 3.7 - \underline{(-4.5)^2} + 0.7 \right) \div (-0.6) \\ & = \left( \underline{7.1 \times 3.7} - 20.25 + 0.7 \right) \div (-0.6) \\ & = \left( \underline{26.27 - 20.25} + 0.7 \right) \div (-0.6) \\ & = \underline{(6.02 + 0.7)} \div (-0.6) \\ & = \underline{6.72 \div (-0.6)} \\ & = -11.2 \end{aligned}$$