

# Order of Operations with Decimals (I)

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

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

Simplify each expression using the correct order of operations.

$$(4.2)^2 \div ((-1.5) \times 9.8 + 3.1 - 8.2 + 5.1)$$

$$(-1.1) + (-1.4)^2 - (-0.1) \div (2.5 \times (0.4)^2)$$

$$(-5.4) - (1.4)^2 + (0.2)^2 \div ((-1.6) \times (-2.5))$$

# Order of Operations with Decimals (I) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (4.2)^2 \div \left( \underline{(-1.5) \times 9.8} + 3.1 - 8.2 + 5.1 \right) \\ &= (4.2)^2 \div \left( \underline{(-14.7) + 3.1} - 8.2 + 5.1 \right) \\ &= (4.2)^2 \div \left( \underline{(-11.6) - 8.2} + 5.1 \right) \\ &= (4.2)^2 \div \left( \underline{(-19.8) + 5.1} \right) \\ &= \underline{(4.2)^2} \div (-14.7) \\ &= \underline{17.64} \div (-14.7) \\ &= -1.2 \end{aligned}$$

$$\begin{aligned} & (-1.1) + (-1.4)^2 - (-0.1) \div \left( 2.5 \times \underline{(0.4)^2} \right) \\ &= (-1.1) + (-1.4)^2 - (-0.1) \div \left( \underline{2.5 \times 0.16} \right) \\ &= (-1.1) + \underline{(-1.4)^2} - (-0.1) \div 0.4 \\ &= (-1.1) + 1.96 - \underline{(-0.1) \div 0.4} \\ &= \underline{(-1.1) + 1.96} - (-0.25) \\ &= \underline{0.86 - (-0.25)} \\ &= 1.11 \end{aligned}$$

$$\begin{aligned} & (-5.4) - (1.4)^2 + (0.2)^2 \div \left( \underline{(-1.6) \times (-2.5)} \right) \\ &= (-5.4) - \underline{(1.4)^2} + (0.2)^2 \div 4 \\ &= (-5.4) - 1.96 + \underline{(0.2)^2} \div 4 \\ &= (-5.4) - 1.96 + \underline{0.04 \div 4} \\ &= \underline{(-5.4) - 1.96} + 0.01 \\ &= \underline{(-7.36) + 0.01} \\ &= -7.35 \end{aligned}$$