

## Order of Operations with Decimals (D)

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

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

Simplify each expression using the correct order of operations.

$$((-3.4) \div (-8.5)) \times (-5.5) + (9.5)^2 - (2.4)^2$$

$$(2.4)^2 \div ((-0.2) - 2.2) \times (-8.4) + 5.8 \times (-2.7)$$

$$3.2 + 4.4 - (0.2)^2 \times (2.1 \div (-2.1))^3$$

## Order of Operations with Decimals (D) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \underline{(-3.4) \div (-8.5)} \right) \times (-5.5) + (9.5)^2 - (2.4)^2 \\ & = 0.4 \times (-5.5) + \underline{(9.5)^2} - (2.4)^2 \\ & = 0.4 \times (-5.5) + 90.25 - \underline{(2.4)^2} \\ & = \underline{0.4 \times (-5.5)} + 90.25 - 5.76 \\ & = \underline{(-2.2) + 90.25} - 5.76 \\ & = \underline{88.05 - 5.76} \\ & = 82.29 \end{aligned}$$

$$\begin{aligned} & (2.4)^2 \div \left( \underline{(-0.2) - 2.2} \right) \times (-8.4) + 5.8 \times (-2.7) \\ & = \underline{(2.4)^2} \div (-2.4) \times (-8.4) + 5.8 \times (-2.7) \\ & = \underline{5.76 \div (-2.4)} \times (-8.4) + 5.8 \times (-2.7) \\ & = \underline{(-2.4) \times (-8.4)} + 5.8 \times (-2.7) \\ & = 20.16 + \underline{5.8 \times (-2.7)} \\ & = \underline{20.16 + (-15.66)} \\ & = 4.5 \end{aligned}$$

$$\begin{aligned} & 3.2 + 4.4 - (0.2)^2 \times \left( \underline{2.1 \div (-2.1)} \right)^3 \\ & = 3.2 + 4.4 - \underline{(0.2)^2} \times (-1)^3 \\ & = 3.2 + 4.4 - 0.04 \times \underline{(-1)^3} \\ & = 3.2 + 4.4 - \underline{0.04 \times (-1)} \\ & = \underline{3.2 + 4.4} - (-0.04) \\ & = \underline{7.6 - (-0.04)} \\ & = 7.64 \end{aligned}$$