

## Order of Operations with Decimals (D)

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

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

Simplify each expression using the correct order of operations.

$$((-2.5) + (0.9)^2 - 3.2) \div ((-0.5) \times (-0.4))$$

$$(7.6 \div ((-7.2) + 8.8)) \times (4.2)^2 - 0.3$$

$$((-6.9) + (-4.1)) \div (-0.4)^2 - 2.7 \times 6.8$$

$$1.25 \div (0.5)^2 \times (5.3 - 6.8 + (-8.7))$$

$$(-3.1)^2 - 6.8 \times ((-5.7) \div (-0.4) + (-8.7))$$

$$(-0.8) \div ((-0.2)^2 - (-7.8) \times (-0.3) + 0.7)$$

# Order of Operations with Decimals (D) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((-2.5) + \underline{(0.9)^2} - 3.2) \div ((-0.5) \times (-0.4)) \\ &= \underline{((-2.5) + 0.81 - 3.2)} \div ((-0.5) \times (-0.4)) \\ &= \underline{((-1.69) - 3.2)} \div ((-0.5) \times (-0.4)) \\ &= (-4.89) \div \underline{((-0.5) \times (-0.4))} \\ &= \underline{(-4.89) \div 0.2} \\ &= -24.45 \end{aligned}$$

$$\begin{aligned} & (7.6 \div \underline{((-7.2) + 8.8)}) \times (4.2)^2 - 0.3 \\ &= \underline{(7.6 \div 1.6)} \times (4.2)^2 - 0.3 \\ &= 4.75 \times \underline{(4.2)^2} - 0.3 \\ &= \underline{4.75 \times 17.64} - 0.3 \\ &= \underline{83.79 - 0.3} \\ &= 83.49 \end{aligned}$$

$$\begin{aligned} & \underline{((-6.9) + (-4.1))} \div (-0.4)^2 - 2.7 \times 6.8 \\ &= (-11) \div \underline{(-0.4)^2} - 2.7 \times 6.8 \\ &= \underline{(-11) \div 0.16} - 2.7 \times 6.8 \\ &= (-68.75) - \underline{2.7 \times 6.8} \\ &= \underline{(-68.75) - 18.36} \\ &= -87.11 \end{aligned}$$

$$\begin{aligned} & 1.25 \div (0.5)^2 \times \underline{(5.3 - 6.8 + (-8.7))} \\ &= 1.25 \div (0.5)^2 \times \underline{((-1.5) + (-8.7))} \\ &= 1.25 \div \underline{(0.5)^2} \times (-10.2) \\ &= \underline{1.25 \div 0.25} \times (-10.2) \\ &= \underline{5 \times (-10.2)} \\ &= -51 \end{aligned}$$

$$\begin{aligned} & (-3.1)^2 - 6.8 \times \underline{((-5.7) \div (-0.4) + (-8.7))} \\ &= (-3.1)^2 - 6.8 \times \underline{(14.25 + (-8.7))} \\ &= \underline{(-3.1)^2} - 6.8 \times 5.55 \\ &= 9.61 - \underline{6.8 \times 5.55} \\ &= \underline{9.61 - 37.74} \\ &= -28.13 \end{aligned}$$

$$\begin{aligned} & (-0.8) \div \underline{((-0.2)^2 - (-7.8) \times (-0.3) + 0.7)} \\ &= (-0.8) \div (0.04 - \underline{(-7.8) \times (-0.3)} + 0.7) \\ &= (-0.8) \div \underline{(0.04 - 2.34 + 0.7)} \\ &= (-0.8) \div \underline{((-2.3) + 0.7)} \\ &= \underline{(-0.8) \div (-1.6)} \\ &= 0.5 \end{aligned}$$