

## Order of Operations with Decimals (E)

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

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

Simplify each expression using the correct order of operations.

$$(0.5 - (-8.7) \times (-8.3)) \div ((0.6)^2 + (-4.4))$$

$$9.9 + (-7.5) \times ((-3.5) \div 0.7 - (0.4)^2)$$

$$1.8 \div 2.4 \times (7.1 - (1.6)^2 + (-3.1))$$

$$((1.8)^2 \div 7.2 + (-6.8) - (-7.2)) \times (-4.6)$$

$$((-4.1) - (-7.1)) \div (0.4)^2 + 4.7 \times 5.3$$

$$(-7.5)^2 \times ((-6.6) \div (8.3 - (-4.9) + (-8.2)))$$

# Order of Operations with Decimals (E) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (0.5 - \underline{(-8.7) \times (-8.3)}) \div ((0.6)^2 + (-4.4)) \\ &= \underline{(0.5 - 72.21)} \div ((0.6)^2 + (-4.4)) \\ &= (-71.71) \div (\underline{(0.6)^2} + (-4.4)) \\ &= (-71.71) \div (\underline{0.36} + (-4.4)) \\ &= \underline{(-71.71) \div (-4.04)} \\ &= 17.75 \end{aligned}$$

$$\begin{aligned} & 9.9 + (-7.5) \times ((-3.5) \div 0.7 - \underline{(0.4)^2}) \\ &= 9.9 + (-7.5) \times (\underline{(-3.5) \div 0.7} - 0.16) \\ &= 9.9 + (-7.5) \times (\underline{(-5) - 0.16}) \\ &= 9.9 + \underline{(-7.5) \times (-5.16)} \\ &= \underline{9.9 + 38.7} \\ &= 48.6 \end{aligned}$$

$$\begin{aligned} & 1.8 \div 2.4 \times (7.1 - \underline{(1.6)^2} + (-3.1)) \\ &= 1.8 \div 2.4 \times (\underline{7.1 - 2.56} + (-3.1)) \\ &= 1.8 \div 2.4 \times (\underline{4.54} + (-3.1)) \\ &= \underline{1.8 \div 2.4} \times 1.44 \\ &= \underline{0.75} \times 1.44 \\ &= 1.08 \end{aligned}$$

$$\begin{aligned} & (\underline{(1.8)^2} \div 7.2 + (-6.8) - (-7.2)) \times (-4.6) \\ &= (\underline{3.24 \div 7.2} + (-6.8) - (-7.2)) \times (-4.6) \\ &= (\underline{0.45} + (-6.8) - (-7.2)) \times (-4.6) \\ &= (\underline{(-6.35) - (-7.2)}) \times (-4.6) \\ &= \underline{0.85} \times (-4.6) \\ &= -3.91 \end{aligned}$$

$$\begin{aligned} & (\underline{(-4.1) - (-7.1)}) \div (0.4)^2 + 4.7 \times 5.3 \\ &= 3 \div \underline{(0.4)^2} + 4.7 \times 5.3 \\ &= \underline{3 \div 0.16} + 4.7 \times 5.3 \\ &= 18.75 + \underline{4.7 \times 5.3} \\ &= \underline{18.75 + 24.91} \\ &= 43.66 \end{aligned}$$

$$\begin{aligned} & (-7.5)^2 \times ((-6.6) \div (\underline{8.3 - (-4.9)} + (-8.2))) \\ &= (-7.5)^2 \times ((-6.6) \div (\underline{13.2} + (-8.2))) \\ &= (-7.5)^2 \times (\underline{(-6.6) \div 5}) \\ &= \underline{(-7.5)^2} \times (-1.32) \\ &= \underline{56.25} \times (-1.32) \\ &= -74.25 \end{aligned}$$