

## Order of Operations with Decimals (B)

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

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

Simplify each expression using the correct order of operations.

$$(3.3)^2 \div 5.5 \times (5.4 - (-8.7) + 5.9)$$

$$((2.5)^2 \div (9.1 - 2.2 + 5.6)) \times 4.3$$

$$(-7.7)^2 \div ((-0.5) \times 5.6 + (-2.4) - (-0.3))$$

$$(2.4 + 3.6 \times (-9.4) - (-3.6)^2) \div 0.6$$

$$((( -0.8) + 8.6) \div (-1.3)) \times (-8.6) - (7.6)^2$$

$$((3.6)^2 - 5.1 \div (4.1 + (-6.6))) \times (-2.3)$$

# Order of Operations with Decimals (B) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned}(3.3)^2 \div 5.5 \times (5.4 - (-8.7) + 5.9) \\ &= (3.3)^2 \div 5.5 \times (14.1 + 5.9) \\ &= (3.3)^2 \div 5.5 \times 20 \\ &= 10.89 \div 5.5 \times 20 \\ &= 1.98 \times 20 \\ &= 39.6\end{aligned}$$

$$\begin{aligned}((2.5)^2 \div (9.1 - 2.2 + 5.6)) \times 4.3 \\ &= ((2.5)^2 \div (6.9 + 5.6)) \times 4.3 \\ &= ((2.5)^2 \div 12.5) \times 4.3 \\ &= (6.25 \div 12.5) \times 4.3 \\ &= 0.5 \times 4.3 \\ &= 2.15\end{aligned}$$

$$\begin{aligned}(-7.7)^2 \div ((-0.5) \times 5.6 + (-2.4) - (-0.3)) \\ &= (-7.7)^2 \div ((-2.8) + (-2.4) - (-0.3)) \\ &= (-7.7)^2 \div ((-5.2) - (-0.3)) \\ &= (-7.7)^2 \div (-4.9) \\ &= 59.29 \div (-4.9) \\ &= -12.1\end{aligned}$$

$$\begin{aligned}(2.4 + 3.6 \times (-9.4) - (-3.6)^2) \div 0.6 \\ &= (2.4 + 3.6 \times (-9.4) - 12.96) \div 0.6 \\ &= (2.4 + (-33.84) - 12.96) \div 0.6 \\ &= ((-31.44) - 12.96) \div 0.6 \\ &= (-44.4) \div 0.6 \\ &= -74\end{aligned}$$

$$\begin{aligned}((( -0.8) + 8.6) \div (-1.3)) \times (-8.6) - (7.6)^2 \\ &= (7.8 \div (-1.3)) \times (-8.6) - (7.6)^2 \\ &= (-6) \times (-8.6) - (7.6)^2 \\ &= (-6) \times (-8.6) - 57.76 \\ &= 51.6 - 57.76 \\ &= -6.16\end{aligned}$$

$$\begin{aligned}((3.6)^2 - 5.1 \div (4.1 + (-6.6))) \times (-2.3) \\ &= ((3.6)^2 - 5.1 \div (-2.5)) \times (-2.3) \\ &= (12.96 - 5.1 \div (-2.5)) \times (-2.3) \\ &= (12.96 - (-2.04)) \times (-2.3) \\ &= 15 \times (-2.3) \\ &= -34.5\end{aligned}$$