

## Order of Operations with Decimals (B)

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

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

Simplify each expression using the correct order of operations.

$$5.9 + 3.8 \times (5.4 - 3.9)^2$$

$$8.6 \times (9.5 + 6.2 - (3.5)^2)$$

$$(5.9)^2 - 7.8 \div (4.9 + 2.6)$$

$$(8.2)^2 - 9.3 \div (7.1 + 2.2)$$

$$(7.7)^2 + 4.9 \times (4.3 - 3.9)$$

$$1.2 \times (5.4 - 3.4 + 1.5)^2$$

$$(8.6 + (7.4)^2 - 9.5) \times 1.5$$

$$((6.6)^2 - 8.4 + 3.7) \div 5.8$$

# Order of Operations with Decimals (B) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 5.9 + 3.8 \times (5.4 - 3.9)^2 \\ &= 5.9 + 3.8 \times (1.5)^2 \\ &= 5.9 + 3.8 \times 2.25 \\ &= 5.9 + 8.55 \\ &= 14.45 \end{aligned}$$

$$\begin{aligned} & 8.6 \times (9.5 + 6.2 - (3.5)^2) \\ &= 8.6 \times (9.5 + 6.2 - 12.25) \\ &= 8.6 \times (15.7 - 12.25) \\ &= 8.6 \times 3.45 \\ &= 29.67 \end{aligned}$$

$$\begin{aligned} & (5.9)^2 - 7.8 \div (4.9 + 2.6) \\ &= (5.9)^2 - 7.8 \div 7.5 \\ &= 34.81 - 7.8 \div 7.5 \\ &= 34.81 - 1.04 \\ &= 33.77 \end{aligned}$$

$$\begin{aligned} & (8.2)^2 - 9.3 \div (7.1 + 2.2) \\ &= (8.2)^2 - 9.3 \div 9.3 \\ &= 67.24 - 9.3 \div 9.3 \\ &= 67.24 - 1 \\ &= 66.24 \end{aligned}$$

$$\begin{aligned} & (7.7)^2 + 4.9 \times (4.3 - 3.9) \\ &= (7.7)^2 + 4.9 \times 0.4 \\ &= 59.29 + 4.9 \times 0.4 \\ &= 59.29 + 1.96 \\ &= 61.25 \end{aligned}$$

$$\begin{aligned} & 1.2 \times (5.4 - 3.4 + 1.5)^2 \\ &= 1.2 \times (2 + 1.5)^2 \\ &= 1.2 \times (3.5)^2 \\ &= 1.2 \times 12.25 \\ &= 14.7 \end{aligned}$$

$$\begin{aligned} & (8.6 + (7.4)^2 - 9.5) \times 1.5 \\ &= (8.6 + 54.76 - 9.5) \times 1.5 \\ &= (63.36 - 9.5) \times 1.5 \\ &= 53.86 \times 1.5 \\ &= 80.79 \end{aligned}$$

$$\begin{aligned} & ((6.6)^2 - 8.4 + 3.7) \div 5.8 \\ &= (43.56 - 8.4 + 3.7) \div 5.8 \\ &= (35.16 + 3.7) \div 5.8 \\ &= 38.86 \div 5.8 \\ &= 6.7 \end{aligned}$$