

# Order of Operations with Decimals (J)

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

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

Simplify each expression using the correct order of operations.

$$1.8 \times ((1.5)^2 + 5.8 - 2.2)$$

$$1.3 - 7.2 \div (3.8 + (1.4)^2)$$

$$(4.5 + 8.2 - 9.8)^2 \div 2.9$$

$$(5.3 + 4.6 - 3.3)^2 \div 1.2$$

$$(1.8)^2 \times (7.1 + 6.2 - 5.3)$$

$$8.2 \times ((2.5)^2 - 2.6 + 4.9)$$

$$6.5 \div (4.7 + 1.8) \times (8.7)^2$$

$$(2.5)^2 \times (4.5 + 2.9 - 6.4)$$

# Order of Operations with Decimals (J) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 1.8 \times ((1.5)^2 + 5.8 - 2.2) \\ &= 1.8 \times (2.25 + 5.8 - 2.2) \\ &= 1.8 \times (8.05 - 2.2) \\ &= 1.8 \times 5.85 \\ &= 10.53 \end{aligned}$$

$$\begin{aligned} & 1.3 - 7.2 \div (3.8 + (1.4)^2) \\ &= 1.3 - 7.2 \div (3.8 + 1.96) \\ &= 1.3 - 7.2 \div 5.76 \\ &= 1.3 - 1.25 \\ &= 0.05 \end{aligned}$$

$$\begin{aligned} & (4.5 + 8.2 - 9.8)^2 \div 2.9 \\ &= (12.7 - 9.8)^2 \div 2.9 \\ &= (2.9)^2 \div 2.9 \\ &= 8.41 \div 2.9 \\ &= 2.9 \end{aligned}$$

$$\begin{aligned} & (5.3 + 4.6 - 3.3)^2 \div 1.2 \\ &= (9.9 - 3.3)^2 \div 1.2 \\ &= (6.6)^2 \div 1.2 \\ &= 43.56 \div 1.2 \\ &= 36.3 \end{aligned}$$

$$\begin{aligned} & (1.8)^2 \times (7.1 + 6.2 - 5.3) \\ &= (1.8)^2 \times (13.3 - 5.3) \\ &= (1.8)^2 \times 8 \\ &= 3.24 \times 8 \\ &= 25.92 \end{aligned}$$

$$\begin{aligned} & 8.2 \times ((2.5)^2 - 2.6 + 4.9) \\ &= 8.2 \times (6.25 - 2.6 + 4.9) \\ &= 8.2 \times (3.65 + 4.9) \\ &= 8.2 \times 8.55 \\ &= 70.11 \end{aligned}$$

$$\begin{aligned} & 6.5 \div (4.7 + 1.8) \times (8.7)^2 \\ &= 6.5 \div 6.5 \times (8.7)^2 \\ &= 6.5 \div 6.5 \times 75.69 \\ &= 1 \times 75.69 \\ &= 75.69 \end{aligned}$$

$$\begin{aligned} & (2.5)^2 \times (4.5 + 2.9 - 6.4) \\ &= (2.5)^2 \times (7.4 - 6.4) \\ &= (2.5)^2 \times 1 \\ &= 6.25 \times 1 \\ &= 6.25 \end{aligned}$$