

## Order of Operations with Decimals (A)

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

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

Simplify each expression using the correct order of operations.

$$(5.6 \times 1.5)^2 \div 9.8 + 2.4 - 6.8 + 7.2$$

$$(6.1 + (9.2)^2) \times ((0.5)^2 - 0.25) \div 4.1$$

$$4.4 + (8.5)^2 - 2.1 \times (5.4 \div 2.7)^2$$

$$(6.4 \times 1.5)^2 \div 2.4 + 0.2 - (5.3)^2$$

$$((9.5)^2 \div 2.5) \times (4.5 + 4.6 - 3.6 - 2.8)$$

$$((2.8)^2 + (6.6)^2 - 9.2) \times (2.1 \div 1.2)$$

# Order of Operations with Decimals (A) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (5.6 \times 1.5)^2 \div 9.8 + 2.4 - 6.8 + 7.2 \\ &= (8.4)^2 \div 9.8 + 2.4 - 6.8 + 7.2 \\ &= 70.56 \div 9.8 + 2.4 - 6.8 + 7.2 \\ &= 7.2 + 2.4 - 6.8 + 7.2 \\ &= 9.6 - 6.8 + 7.2 \\ &= 2.8 + 7.2 \\ &= 10 \end{aligned}$$

$$\begin{aligned} & (6.1 + (9.2)^2) \times ((0.5)^2 - 0.25) \div 4.1 \\ &= (6.1 + 84.64) \times ((0.5)^2 - 0.25) \div 4.1 \\ &= 90.74 \times ((0.5)^2 - 0.25) \div 4.1 \\ &= 90.74 \times (0.25 - 0.25) \div 4.1 \\ &= 90.74 \times 0 \div 4.1 \\ &= 0 \div 4.1 \\ &= 0 \end{aligned}$$

$$\begin{aligned} & 4.4 + (8.5)^2 - 2.1 \times (5.4 \div 2.7)^2 \\ &= 4.4 + (8.5)^2 - 2.1 \times 2^2 \\ &= 4.4 + 72.25 - 2.1 \times 2^2 \\ &= 4.4 + 72.25 - 2.1 \times 4 \\ &= 4.4 + 72.25 - 8.4 \\ &= 76.65 - 8.4 \\ &= 68.25 \end{aligned}$$

$$\begin{aligned} & (6.4 \times 1.5)^2 \div 2.4 + 0.2 - (5.3)^2 \\ &= (9.6)^2 \div 2.4 + 0.2 - (5.3)^2 \\ &= 92.16 \div 2.4 + 0.2 - (5.3)^2 \\ &= 92.16 \div 2.4 + 0.2 - 28.09 \\ &= 38.4 + 0.2 - 28.09 \\ &= 38.6 - 28.09 \\ &= 10.51 \end{aligned}$$

$$\begin{aligned} & ((9.5)^2 \div 2.5) \times (4.5 + 4.6 - 3.6 - 2.8) \\ &= (90.25 \div 2.5) \times (4.5 + 4.6 - 3.6 - 2.8) \\ &= 36.1 \times (4.5 + 4.6 - 3.6 - 2.8) \\ &= 36.1 \times (9.1 - 3.6 - 2.8) \\ &= 36.1 \times (5.5 - 2.8) \\ &= 36.1 \times 2.7 \\ &= 97.47 \end{aligned}$$

$$\begin{aligned} & ((2.8)^2 + (6.6)^2 - 9.2) \times (2.1 \div 1.2) \\ &= (7.84 + (6.6)^2 - 9.2) \times (2.1 \div 1.2) \\ &= (7.84 + 43.56 - 9.2) \times (2.1 \div 1.2) \\ &= (51.4 - 9.2) \times (2.1 \div 1.2) \\ &= 42.2 \times (2.1 \div 1.2) \\ &= 42.2 \times 1.75 \\ &= 73.85 \end{aligned}$$