

## Order of Operations with Decimals (B)

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

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

Simplify each expression using the correct order of operations.

$$((1.5)^2 \times 6.6) \div (9.8 + 8.6 - (3.8)^2)$$

$$((3.1)^2 - 3.4 + (6.3)^2) \times (2.4 \div 1.6)$$

$$(9.8 \div (1.4)^2) \times 3.5 - 3.1 + 2.7 \times 1.6$$

$$(8.4 \div 1.2) \times 6.7 + 1.1 - (4.1)^2 - 3.9$$

$$((4.8)^2 \div 3.6) \times 1.25 + 3.3 - 7.2 + 1.9$$

$$6.1 \times ((1.9 + 2.2 - 4.1) \div (1.6)^2)^3$$

# Order of Operations with Decimals (B) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((1.5)^2 \times 6.6) \div (9.8 + 8.6 - (3.8)^2) \\ &= (2.25 \times 6.6) \div (9.8 + 8.6 - (3.8)^2) \\ &= 14.85 \div (9.8 + 8.6 - (3.8)^2) \\ &= 14.85 \div (9.8 + 8.6 - 14.44) \\ &= 14.85 \div (18.4 - 14.44) \\ &= 14.85 \div 3.96 \\ &= 3.75 \end{aligned}$$

$$\begin{aligned} & ((3.1)^2 - 3.4 + (6.3)^2) \times (2.4 \div 1.6) \\ &= (9.61 - 3.4 + (6.3)^2) \times (2.4 \div 1.6) \\ &= (9.61 - 3.4 + 39.69) \times (2.4 \div 1.6) \\ &= (6.21 + 39.69) \times (2.4 \div 1.6) \\ &= 45.9 \times (2.4 \div 1.6) \\ &= 45.9 \times 1.5 \\ &= 68.85 \end{aligned}$$

$$\begin{aligned} & (9.8 \div (1.4)^2) \times 3.5 - 3.1 + 2.7 \times 1.6 \\ &= (9.8 \div 1.96) \times 3.5 - 3.1 + 2.7 \times 1.6 \\ &= 5 \times 3.5 - 3.1 + 2.7 \times 1.6 \\ &= 17.5 - 3.1 + 2.7 \times 1.6 \\ &= 17.5 - 3.1 + 4.32 \\ &= 14.4 + 4.32 \\ &= 18.72 \end{aligned}$$

$$\begin{aligned} & (8.4 \div 1.2) \times 6.7 + 1.1 - (4.1)^2 - 3.9 \\ &= 7 \times 6.7 + 1.1 - (4.1)^2 - 3.9 \\ &= 7 \times 6.7 + 1.1 - 16.81 - 3.9 \\ &= 46.9 + 1.1 - 16.81 - 3.9 \\ &= 48 - 16.81 - 3.9 \\ &= 31.19 - 3.9 \\ &= 27.29 \end{aligned}$$

$$\begin{aligned} & ((4.8)^2 \div 3.6) \times 1.25 + 3.3 - 7.2 + 1.9 \\ &= (23.04 \div 3.6) \times 1.25 + 3.3 - 7.2 + 1.9 \\ &= 6.4 \times 1.25 + 3.3 - 7.2 + 1.9 \\ &= 8 + 3.3 - 7.2 + 1.9 \\ &= 11.3 - 7.2 + 1.9 \\ &= 4.1 + 1.9 \\ &= 6 \end{aligned}$$

$$\begin{aligned} & 6.1 \times ((1.9 + 2.2 - 4.1) \div (1.6)^2)^3 \\ &= 6.1 \times ((4.1 - 4.1) \div (1.6)^2)^3 \\ &= 6.1 \times (0 \div (1.6)^2)^3 \\ &= 6.1 \times (0 \div 2.56)^3 \\ &= 6.1 \times 0^3 \\ &= 6.1 \times 0 \\ &= 0 \end{aligned}$$