

# Order of Operations with Decimals (H)

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

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

Simplify each expression using the correct order of operations.

$$(3.3 \div 6.6) \times 9.1 + 5.2 - 7.6 + (3.1)^2$$

$$((2.4)^2 \div 7.2) \times 9.6 + (7.3)^2 - 1.3$$

$$(4.3)^2 + 3.6 \div 0.4 \times (8.7 - (2.5)^2)$$

$$(7.2 - 5.5) \times 7.1 \div 1.7 + 9.5 - (2.5)^2$$

$$(2.7)^2 - 9.3 \div 6.2 \times ((1.6)^2 + 0.4)$$

$$(4.6)^2 - (4.5)^2 + 8.6 \times (5.4 \div 2.7)$$

# Order of Operations with Decimals (H) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (3.3 \div 6.6) \times 9.1 + 5.2 - 7.6 + (3.1)^2 \\ &= 0.5 \times 9.1 + 5.2 - 7.6 + (3.1)^2 \\ &= 0.5 \times 9.1 + 5.2 - 7.6 + 9.61 \\ &= 4.55 + 5.2 - 7.6 + 9.61 \\ &= 9.75 - 7.6 + 9.61 \\ &= 2.15 + 9.61 \\ &= 11.76 \end{aligned}$$

$$\begin{aligned} & ((2.4)^2 \div 7.2) \times 9.6 + (7.3)^2 - 1.3 \\ &= (5.76 \div 7.2) \times 9.6 + (7.3)^2 - 1.3 \\ &= 0.8 \times 9.6 + (7.3)^2 - 1.3 \\ &= 0.8 \times 9.6 + 53.29 - 1.3 \\ &= 7.68 + 53.29 - 1.3 \\ &= 60.97 - 1.3 \\ &= 59.67 \end{aligned}$$

$$\begin{aligned} & (4.3)^2 + 3.6 \div 0.4 \times (8.7 - (2.5)^2) \\ &= (4.3)^2 + 3.6 \div 0.4 \times (8.7 - 6.25) \\ &= (4.3)^2 + 3.6 \div 0.4 \times 2.45 \\ &= 18.49 + 3.6 \div 0.4 \times 2.45 \\ &= 18.49 + 9 \times 2.45 \\ &= 18.49 + 22.05 \\ &= 40.54 \end{aligned}$$

$$\begin{aligned} & (7.2 - 5.5) \times 7.1 \div 1.7 + 9.5 - (2.5)^2 \\ &= 1.7 \times 7.1 \div 1.7 + 9.5 - (2.5)^2 \\ &= 1.7 \times 7.1 \div 1.7 + 9.5 - 6.25 \\ &= 12.07 \div 1.7 + 9.5 - 6.25 \\ &= 7.1 + 9.5 - 6.25 \\ &= 16.6 - 6.25 \\ &= 10.35 \end{aligned}$$

$$\begin{aligned} & (2.7)^2 - 9.3 \div 6.2 \times ((1.6)^2 + 0.4) \\ &= (2.7)^2 - 9.3 \div 6.2 \times (2.56 + 0.4) \\ &= (2.7)^2 - 9.3 \div 6.2 \times 2.96 \\ &= 7.29 - 9.3 \div 6.2 \times 2.96 \\ &= 7.29 - 1.5 \times 2.96 \\ &= 7.29 - 4.44 \\ &= 2.85 \end{aligned}$$

$$\begin{aligned} & (4.6)^2 - (4.5)^2 + 8.6 \times (5.4 \div 2.7) \\ &= (4.6)^2 - (4.5)^2 + 8.6 \times 2 \\ &= 21.16 - (4.5)^2 + 8.6 \times 2 \\ &= 21.16 - 20.25 + 8.6 \times 2 \\ &= 21.16 - 20.25 + 17.2 \\ &= 0.91 + 17.2 \\ &= 18.11 \end{aligned}$$