

# Order of Operations with Decimals (I)

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

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

Solve each expression using the correct order of operations.

$$3.5 \times ((-7.4) - 4.5 + (-4.4)^2)$$

$$0.5 \times ((-8.1) - 4.4 + (0.4)^2)$$

$$6.6 + 3.7 \div (3.3 - 4.3)^3$$

$$(5.4)^2 - 7.8 \times (2.8 + (-8.6))$$

$$((-5.2) - (-4.9)) \div 2.5 + (-9.5)^2$$

$$(-2.4) \times (8.1 + (-8.9) - 5.2)^2$$

$$(3.8 - (-3.9))^2 \div (4.7 + (-5.8))$$

$$((-2.5) + 2.9) \times (3.5 - 4.5)^3$$

# Order of Operations with Decimals (I) Answers

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

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

Solve each expression using the correct order of operations.

$$\begin{aligned} & 3.5 \times \left( (-7.4) - 4.5 + \underline{(-4.4)^2} \right) \\ & = 3.5 \times \left( \underline{(-7.4) - 4.5} + 19.36 \right) \\ & = 3.5 \times \left( \underline{(-11.9) + 19.36} \right) \\ & = \underline{3.5 \times 7.46} \\ & = \underline{26.11} \end{aligned}$$

$$\begin{aligned} & 0.5 \times \left( (-8.1) - 4.4 + \underline{(0.4)^2} \right) \\ & = 0.5 \times \left( \underline{(-8.1) - 4.4} + 0.16 \right) \\ & = 0.5 \times \left( \underline{(-12.5) + 0.16} \right) \\ & = \underline{0.5 \times (-12.34)} \\ & = \underline{-6.17} \end{aligned}$$

$$\begin{aligned} & 6.6 + 3.7 \div \underline{(3.3 - 4.3)^3} \\ & = 6.6 + 3.7 \div \underline{(-1)^3} \\ & = 6.6 + \underline{3.7 \div (-1)} \\ & = \underline{6.6 + (-3.7)} \\ & = \underline{2.9} \end{aligned}$$

$$\begin{aligned} & (5.4)^2 - 7.8 \times \underline{(2.8 + (-8.6))} \\ & = \underline{(5.4)^2} - 7.8 \times (-5.8) \\ & = 29.16 - \underline{7.8 \times (-5.8)} \\ & = \underline{29.16 - (-45.24)} \\ & = \underline{74.4} \end{aligned}$$

$$\begin{aligned} & \underline{((-5.2) - (-4.9))} \div 2.5 + (-9.5)^2 \\ & = (-0.3) \div 2.5 + \underline{(-9.5)^2} \\ & = \underline{(-0.3) \div 2.5} + 90.25 \\ & = \underline{(-0.12) + 90.25} \\ & = \underline{90.13} \end{aligned}$$

$$\begin{aligned} & (-2.4) \times \underline{(8.1 + (-8.9) - 5.2)^2} \\ & = (-2.4) \times \underline{((-0.8) - 5.2)^2} \\ & = (-2.4) \times \underline{(-6)^2} \\ & = \underline{(-2.4) \times 36} \\ & = \underline{-86.4} \end{aligned}$$

$$\begin{aligned} & \underline{(3.8 - (-3.9))}^2 \div (4.7 + (-5.8)) \\ & = (7.7)^2 \div \underline{(4.7 + (-5.8))} \\ & = \underline{(7.7)^2} \div (-1.1) \\ & = \underline{59.29} \div (-1.1) \\ & = \underline{-53.9} \end{aligned}$$

$$\begin{aligned} & \underline{((-2.5) + 2.9)} \times (3.5 - 4.5)^3 \\ & = 0.4 \times \underline{(3.5 - 4.5)^3} \\ & = 0.4 \times \underline{(-1)^3} \\ & = \underline{0.4 \times (-1)} \\ & = \underline{-0.4} \end{aligned}$$