

Order of Operations with Decimals (D)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$(-9.6) \times ((-0.5) - 1.6 + 4.1)^3$$

$$(-1.5) \times ((-2.8)^2 - 9.2 + 3.6)$$

$$(2.7 + 2.5)^2 \div 0.8 - (-9.9)$$

$$((4.2)^2 - (-8.4) \div (-3.5)) \times 4.5$$

$$(-9.6) \div ((-2.6) - (-3.3) + (-2.7))^2$$

$$(5.2 - 5.8)^2 \div (6.8 + (-3.8))$$

$$(7.4)^2 + 2.3 \div ((-3.4) - (-5.7))$$

$$(3.5)^2 - 7.2 \times ((-0.4) + (-1.9))$$

Order of Operations with Decimals (D) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & (-9.6) \times \left(\underline{(-0.5) - 1.6} + 4.1 \right)^3 \\ &= (-9.6) \times \left(\underline{(-2.1) + 4.1} \right)^3 \\ &= (-9.6) \times \underline{2^3} \\ &= \underline{(-9.6) \times 8} \\ &= \underline{-76.8} \end{aligned}$$

$$\begin{aligned} & (-1.5) \times \left(\underline{(-2.8)^2} - 9.2 + 3.6 \right) \\ &= (-1.5) \times \left(\underline{7.84 - 9.2} + 3.6 \right) \\ &= (-1.5) \times \left(\underline{(-1.36) + 3.6} \right) \\ &= \underline{(-1.5) \times 2.24} \\ &= \underline{-3.36} \end{aligned}$$

$$\begin{aligned} & \left(\underline{2.7 + 2.5} \right)^2 \div 0.8 - (-9.9) \\ &= \underline{(5.2)^2} \div 0.8 - (-9.9) \\ &= \underline{27.04 \div 0.8} - (-9.9) \\ &= \underline{33.8 - (-9.9)} \\ &= \underline{43.7} \end{aligned}$$

$$\begin{aligned} & \left(\underline{(4.2)^2} - (-8.4) \div (-3.5) \right) \times 4.5 \\ &= \left(17.64 - \underline{(-8.4) \div (-3.5)} \right) \times 4.5 \\ &= \left(\underline{17.64 - 2.4} \right) \times 4.5 \\ &= \underline{15.24 \times 4.5} \\ &= \underline{68.58} \end{aligned}$$

$$\begin{aligned} & (-9.6) \div \left(\underline{(-2.6) - (-3.3)} + (-2.7) \right)^2 \\ &= (-9.6) \div \left(\underline{0.7 + (-2.7)} \right)^2 \\ &= (-9.6) \div \underline{(-2)^2} \\ &= \underline{(-9.6) \div 4} \\ &= \underline{-2.4} \end{aligned}$$

$$\begin{aligned} & \left(\underline{5.2 - 5.8} \right)^2 \div (6.8 + (-3.8)) \\ &= (-0.6)^2 \div \left(\underline{6.8 + (-3.8)} \right) \\ &= \underline{(-0.6)^2} \div 3 \\ &= \underline{0.36 \div 3} \\ &= \underline{0.12} \end{aligned}$$

$$\begin{aligned} & (7.4)^2 + 2.3 \div \left(\underline{(-3.4) - (-5.7)} \right) \\ &= \underline{(7.4)^2} + 2.3 \div 2.3 \\ &= 54.76 + \underline{2.3 \div 2.3} \\ &= \underline{54.76 + 1} \\ &= \underline{55.76} \end{aligned}$$

$$\begin{aligned} & (3.5)^2 - 7.2 \times \left(\underline{(-0.4) + (-1.9)} \right) \\ &= \underline{(3.5)^2} - 7.2 \times (-2.3) \\ &= 12.25 - \underline{7.2 \times (-2.3)} \\ &= \underline{12.25 - (-16.56)} \\ &= \underline{28.81} \end{aligned}$$