

Order of Operations with Decimals (D)

Name: _____

Date: _____

Simplify 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: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (-9,6) \times \left(\underline{(-0,5) - 1,6} + 4,1 \right)^3 \\ & = (-9,6) \times \left(\underline{(-2,1) + 4,1} \right)^3 \\ & = (-9,6) \times \underline{2^3} \\ & = \underline{(-9,6) \times 8} \\ & = \underline{-76,8} \end{aligned}$$

$$\begin{aligned} & (-1,5) \times \left(\underline{(-2,8)^2} - 9,2 + 3,6 \right) \\ & = (-1,5) \times \left(\underline{7,84 - 9,2} + 3,6 \right) \\ & = (-1,5) \times \left(\underline{(-1,36) + 3,6} \right) \\ & = \underline{(-1,5) \times 2,24} \\ & = \underline{-3,36} \end{aligned}$$

$$\begin{aligned} & \left(\underline{2,7 + 2,5} \right)^2 \div 0,8 - (-9,9) \\ & = \underline{(5,2)^2} \div 0,8 - (-9,9) \\ & = \underline{27,04 \div 0,8} - (-9,9) \\ & = \underline{33,8 - (-9,9)} \\ & = \underline{43,7} \end{aligned}$$

$$\begin{aligned} & \left(\underline{(4,2)^2} - (-8,4) \div (-3,5) \right) \times 4,5 \\ & = \left(17,64 - \underline{(-8,4) \div (-3,5)} \right) \times 4,5 \\ & = \left(\underline{17,64 - 2,4} \right) \times 4,5 \\ & = \underline{15,24 \times 4,5} \\ & = \underline{68,58} \end{aligned}$$

$$\begin{aligned} & (-9,6) \div \left(\underline{(-2,6) - (-3,3)} + (-2,7) \right)^2 \\ & = (-9,6) \div \left(\underline{0,7 + (-2,7)} \right)^2 \\ & = (-9,6) \div \underline{(-2)^2} \\ & = \underline{(-9,6) \div 4} \\ & = \underline{-2,4} \end{aligned}$$

$$\begin{aligned} & \left(\underline{5,2 - 5,8} \right)^2 \div (6,8 + (-3,8)) \\ & = (-0,6)^2 \div \left(\underline{6,8 + (-3,8)} \right) \\ & = \underline{(-0,6)^2} \div 3 \\ & = \underline{0,36 \div 3} \\ & = \underline{0,12} \end{aligned}$$

$$\begin{aligned} & (7,4)^2 + 2,3 \div \left(\underline{(-3,4) - (-5,7)} \right) \\ & = \underline{(7,4)^2} + 2,3 \div 2,3 \\ & = 54,76 + \underline{2,3 \div 2,3} \\ & = \underline{54,76 + 1} \\ & = \underline{55,76} \end{aligned}$$

$$\begin{aligned} & (3,5)^2 - 7,2 \times \left(\underline{(-0,4) + (-1,9)} \right) \\ & = \underline{(3,5)^2} - 7,2 \times (-2,3) \\ & = 12,25 - \underline{7,2 \times (-2,3)} \\ & = \underline{12,25 - (-16,56)} \\ & = \underline{28,81} \end{aligned}$$