

Order of Operations with Decimals (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((-4,7) + 8,1)^2 \div 0,5$$

$$(-2,3) \div 0,4 + (-6,4)^2$$

$$4,9 \div (2,2 + (-3,2))^3$$

$$(-5,6)^2 + 2,9 \times (-0,1)$$

$$(-0,1) \div (-0,5)^2 + (-5,7)$$

$$(-2,4)^2 \div (-4,8) + 7,9$$

$$(4,6)^2 \times ((-1,9) - 2,6)$$

$$(6,4)^2 - 7,4 \times 7,3$$

$$(-4,2) \times 1,4 + (-0,9)^2$$

$$((-7,4) - (-3,9)) \times (2,8)^2$$

Order of Operations with Decimals (G) Answers

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(\underline{(-4,7) + 8,1} \right)^2 \div 0,5 \\ & = \underline{(3,4)^2} \div 0,5 \\ & = \underline{11,56 \div 0,5} \\ & = 23,12 \end{aligned}$$

$$\begin{aligned} & (-2,3) \div 0,4 + \underline{(-6,4)^2} \\ & = \underline{(-2,3) \div 0,4} + 40,96 \\ & = \underline{(-5,75) + 40,96} \\ & = 35,21 \end{aligned}$$

$$\begin{aligned} & 4,9 \div \left(\underline{2,2 + (-3,2)} \right)^3 \\ & = 4,9 \div \underline{(-1)^3} \\ & = \underline{4,9 \div (-1)} \\ & = -4,9 \end{aligned}$$

$$\begin{aligned} & \underline{(-5,6)^2} + 2,9 \times (-0,1) \\ & = 31,36 + \underline{2,9 \times (-0,1)} \\ & = \underline{31,36 + (-0,29)} \\ & = 31,07 \end{aligned}$$

$$\begin{aligned} & (-0,1) \div \underline{(-0,5)^2} + (-5,7) \\ & = \underline{(-0,1) \div 0,25} + (-5,7) \\ & = \underline{(-0,4) + (-5,7)} \\ & = -6,1 \end{aligned}$$

$$\begin{aligned} & \underline{(-2,4)^2} \div (-4,8) + 7,9 \\ & = \underline{5,76 \div (-4,8)} + 7,9 \\ & = \underline{(-1,2) + 7,9} \\ & = 6,7 \end{aligned}$$

$$\begin{aligned} & (4,6)^2 \times \left(\underline{(-1,9) - 2,6} \right) \\ & = \underline{(4,6)^2} \times (-4,5) \\ & = \underline{21,16 \times (-4,5)} \\ & = -95,22 \end{aligned}$$

$$\begin{aligned} & \underline{(6,4)^2} - 7,4 \times 7,3 \\ & = 40,96 - \underline{7,4 \times 7,3} \\ & = \underline{40,96 - 54,02} \\ & = -13,06 \end{aligned}$$

$$\begin{aligned} & (-4,2) \times 1,4 + \underline{(-0,9)^2} \\ & = \underline{(-4,2) \times 1,4} + 0,81 \\ & = \underline{(-5,88) + 0,81} \\ & = -5,07 \end{aligned}$$

$$\begin{aligned} & \left(\underline{(-7,4) - (-3,9)} \right) \times (2,8)^2 \\ & = (-3,5) \times \underline{(2,8)^2} \\ & = \underline{(-3,5) \times 7,84} \\ & = -27,44 \end{aligned}$$