

Order of Operations with Decimals (G)

Name: _____

Date: _____

Solve 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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Solve each expression using the correct order of operations.

$$\begin{aligned} & \left(\underline{(-4.7) + 8.1} \right)^2 \div 0.5 \\ &= \underline{(3.4)^2} \div 0.5 \\ &= \underline{11.56 \div 0.5} \\ &= 23.12 \end{aligned}$$

$$\begin{aligned} & (-2.3) \div 0.4 + \underline{(-6.4)^2} \\ &= \underline{(-2.3) \div 0.4} + 40.96 \\ &= \underline{(-5.75) + 40.96} \\ &= 35.21 \end{aligned}$$

$$\begin{aligned} & 4.9 \div \left(\underline{2.2 + (-3.2)} \right)^3 \\ &= 4.9 \div \underline{(-1)^3} \\ &= \underline{4.9 \div (-1)} \\ &= -4.9 \end{aligned}$$

$$\begin{aligned} & \underline{(-5.6)^2} + 2.9 \times (-0.1) \\ &= 31.36 + \underline{2.9 \times (-0.1)} \\ &= \underline{31.36 + (-0.29)} \\ &= 31.07 \end{aligned}$$

$$\begin{aligned} & (-0.1) \div \underline{(-0.5)^2} + (-5.7) \\ &= \underline{(-0.1) \div 0.25} + (-5.7) \\ &= \underline{(-0.4) + (-5.7)} \\ &= -6.1 \end{aligned}$$

$$\begin{aligned} & \underline{(-2.4)^2} \div (-4.8) + 7.9 \\ &= \underline{5.76 \div (-4.8)} + 7.9 \\ &= \underline{(-1.2) + 7.9} \\ &= 6.7 \end{aligned}$$

$$\begin{aligned} & (4.6)^2 \times \left(\underline{(-1.9) - 2.6} \right) \\ &= \underline{(4.6)^2} \times (-4.5) \\ &= \underline{21.16 \times (-4.5)} \\ &= -95.22 \end{aligned}$$

$$\begin{aligned} & \underline{(6.4)^2} - 7.4 \times 7.3 \\ &= 40.96 - \underline{7.4 \times 7.3} \\ &= \underline{40.96 - 54.02} \\ &= -13.06 \end{aligned}$$

$$\begin{aligned} & (-4.2) \times 1.4 + \underline{(-0.9)^2} \\ &= \underline{(-4.2) \times 1.4} + 0.81 \\ &= \underline{(-5.88) + 0.81} \\ &= -5.07 \end{aligned}$$

$$\begin{aligned} & \left(\underline{(-7.4) - (-3.9)} \right) \times (2.8)^2 \\ &= (-3.5) \times \underline{(2.8)^2} \\ &= \underline{(-3.5) \times 7.84} \\ &= -27.44 \end{aligned}$$