

Order of Operations with Decimals (J)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$(4.3 \div (-2.5) + 2.1) \times (1.5 - (-6.4) + (-4.9))^2$$

$$(-0.2)^2 \div ((9.3 + (-5.1) - 7.9) \times 1.4 + 5.1)$$

$$(-0.5)^2 \times (((-4.3) + (-3.7)) \div (1.9 - 2.9))^2$$

Order of Operations with Decimals (J) Answers

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Solve each expression using the correct order of operations.

$$\begin{aligned} & \left(\underline{4.3 \div (-2.5)} + 2.1 \right) \times (1.5 - (-6.4) + (-4.9))^2 \\ & = \left(\underline{(-1.72) + 2.1} \right) \times (1.5 - (-6.4) + (-4.9))^2 \\ & = 0.38 \times \left(\underline{1.5 - (-6.4)} + (-4.9) \right)^2 \\ & = 0.38 \times \left(\underline{7.9 + (-4.9)} \right)^2 \\ & = 0.38 \times \underline{3^2} \\ & = \underline{0.38 \times 9} \\ & = \underline{3.42} \end{aligned}$$

$$\begin{aligned} & (-0.2)^2 \div \left(\left(\underline{9.3 + (-5.1)} - 7.9 \right) \times 1.4 + 5.1 \right) \\ & = (-0.2)^2 \div \left(\underline{(4.2 - 7.9)} \times 1.4 + 5.1 \right) \\ & = (-0.2)^2 \div \left(\underline{(-3.7) \times 1.4} + 5.1 \right) \\ & = (-0.2)^2 \div \left(\underline{(-5.18) + 5.1} \right) \\ & = \underline{(-0.2)^2} \div (-0.08) \\ & = \underline{0.04 \div (-0.08)} \\ & = \underline{-0.5} \end{aligned}$$

$$\begin{aligned} & (-0.5)^2 \times \left(\left(\underline{(-4.3) + (-3.7)} \right) \div (1.9 - 2.9) \right)^2 \\ & = (-0.5)^2 \times \left((-8) \div \underline{(1.9 - 2.9)} \right)^2 \\ & = (-0.5)^2 \times \left(\underline{(-8) \div (-1)} \right)^2 \\ & = \underline{(-0.5)^2} \times 8^2 \\ & = 0.25 \times \underline{8^2} \\ & = \underline{0.25 \times 64} \\ & = \underline{16} \end{aligned}$$