

Order of Operations with Decimals (J)

Name: _____

Date: _____

Simplify 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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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (\underline{4,3 \div (-2,5)} + 2,1) \times (1,5 - (-6,4) + (-4,9))^2 \\ & = (\underline{(-1,72) + 2,1}) \times (1,5 - (-6,4) + (-4,9))^2 \\ & = 0,38 \times (\underline{1,5 - (-6,4)} + (-4,9))^2 \\ & = 0,38 \times (\underline{7,9 + (-4,9)})^2 \\ & = 0,38 \times \underline{3^2} \\ & = \underline{0,38 \times 9} \\ & = \underline{3,42} \end{aligned}$$

$$\begin{aligned} & (-0,2)^2 \div ((\underline{9,3 + (-5,1)} - 7,9) \times 1,4 + 5,1) \\ & = (-0,2)^2 \div ((\underline{4,2 - 7,9}) \times 1,4 + 5,1) \\ & = (-0,2)^2 \div (\underline{(-3,7) \times 1,4} + 5,1) \\ & = (-0,2)^2 \div (\underline{(-5,18) + 5,1}) \\ & = \underline{(-0,2)^2} \div (-0,08) \\ & = \underline{0,04 \div (-0,08)} \\ & = \underline{-0,5} \end{aligned}$$

$$\begin{aligned} & (-0,5)^2 \times ((\underline{(-4,3) + (-3,7)}) \div (1,9 - 2,9))^2 \\ & = (-0,5)^2 \times ((-8) \div (\underline{1,9 - 2,9}))^2 \\ & = (-0,5)^2 \times (\underline{(-8) \div (-1)})^2 \\ & = \underline{(-0,5)^2} \times 8^2 \\ & = 0,25 \times \underline{8^2} \\ & = \underline{0,25 \times 64} \\ & = \underline{16} \end{aligned}$$