

Order of Operations with Decimals (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(-7,4) \div (-3,7) \times ((5,2)^2 - (-2,9) + (-7,7)) \quad (-8,5) - (-0,6) \times ((-0,3) + (-1,2)^2 \div 3,6)$$

$$4,4 + 8,2 \times ((-2,6)^2 \div 1,3 - (-5,7))$$

$$(-8,4) \times ((-1,2) + 0,3) \div ((2,9)^2 - 8,2)$$

$$((-7,2) - 8,9 \times 5,9) \div (-3,5) + (-1,5)^2$$

$$(6,9 - (-4,6) \times (-0,4) + (3,8)^2) \div (-6,5)$$

Order of Operations with Decimals (J) Answers

Name: _____

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (-7,4) \div (-3,7) \times \left(\underline{(5,2)^2} - (-2,9) + (-7,7) \right) \\ &= (-7,4) \div (-3,7) \times \left(\underline{27,04 - (-2,9)} + (-7,7) \right) \\ &= (-7,4) \div (-3,7) \times \left(\underline{29,94 + (-7,7)} \right) \\ &= \underline{(-7,4) \div (-3,7)} \times 22,24 \\ &= \underline{2 \times 22,24} \\ &= 44,48 \end{aligned}$$

$$\begin{aligned} & (-8,5) - (-0,6) \times \left((-0,3) + \underline{(-1,2)^2} \div 3,6 \right) \\ &= (-8,5) - (-0,6) \times \left((-0,3) + \underline{1,44 \div 3,6} \right) \\ &= (-8,5) - (-0,6) \times \left(\underline{(-0,3) + 0,4} \right) \\ &= (-8,5) - \underline{(-0,6) \times 0,1} \\ &= \underline{(-8,5) - (-0,06)} \\ &= -8,44 \end{aligned}$$

$$\begin{aligned} & 4,4 + 8,2 \times \left(\underline{(-2,6)^2} \div 1,3 - (-5,7) \right) \\ &= 4,4 + 8,2 \times \left(\underline{6,76 \div 1,3} - (-5,7) \right) \\ &= 4,4 + 8,2 \times \left(\underline{5,2 - (-5,7)} \right) \\ &= 4,4 + \underline{8,2 \times 10,9} \\ &= \underline{4,4 + 89,38} \\ &= 93,78 \end{aligned}$$

$$\begin{aligned} & (-8,4) \times \left(\underline{(-1,2) + 0,3} \right) \div \left((2,9)^2 - 8,2 \right) \\ &= (-8,4) \times (-0,9) \div \left(\underline{(2,9)^2} - 8,2 \right) \\ &= (-8,4) \times (-0,9) \div \left(\underline{8,41 - 8,2} \right) \\ &= \underline{(-8,4) \times (-0,9)} \div 0,21 \\ &= \underline{7,56 \div 0,21} \\ &= 36 \end{aligned}$$

$$\begin{aligned} & \left((-7,2) - \underline{8,9 \times 5,9} \right) \div (-3,5) + (-1,5)^2 \\ &= \left(\underline{(-7,2) - 52,51} \right) \div (-3,5) + (-1,5)^2 \\ &= (-59,71) \div (-3,5) + \underline{(-1,5)^2} \\ &= \underline{(-59,71) \div (-3,5)} + 2,25 \\ &= \underline{17,06 + 2,25} \\ &= 19,31 \end{aligned}$$

$$\begin{aligned} & \left(6,9 - (-4,6) \times (-0,4) + \underline{(3,8)^2} \right) \div (-6,5) \\ &= \left(6,9 - \underline{(-4,6) \times (-0,4)} + 14,44 \right) \div (-6,5) \\ &= \left(\underline{6,9 - 1,84} + 14,44 \right) \div (-6,5) \\ &= \left(\underline{5,06 + 14,44} \right) \div (-6,5) \\ &= \underline{19,5 \div (-6,5)} \\ &= -3 \end{aligned}$$