

Order of Operations with Decimals (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

$$(-0,3)^2 + 2,4 \times (3,8 - 1,25) \div (-5,1)$$

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

Order of Operations with Decimals (F) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(\underline{(8,3)^2} \div (-8,3) - 8,5 \right) \times ((-5,8) + 2,6) \\ & = \left(\underline{68,89 \div (-8,3)} - 8,5 \right) \times ((-5,8) + 2,6) \\ & = \left(\underline{(-8,3) - 8,5} \right) \times ((-5,8) + 2,6) \\ & = (-16,8) \times \left(\underline{(-5,8) + 2,6} \right) \\ & = \underline{(-16,8) \times (-3,2)} \\ & = 53,76 \end{aligned}$$

$$\begin{aligned} & \left(9,8 - 5,7 \times 4,6 + \underline{(8,2)^2} \right) \div (-5,5) \\ & = \left(9,8 - \underline{5,7 \times 4,6} + 67,24 \right) \div (-5,5) \\ & = \left(\underline{9,8 - 26,22} + 67,24 \right) \div (-5,5) \\ & = \left(\underline{(-16,42) + 67,24} \right) \div (-5,5) \\ & = \underline{50,82 \div (-5,5)} \\ & = -9,24 \end{aligned}$$

$$\begin{aligned} & \left(\underline{2,4 \times (-6,9)} \right) \div (-1,6) + (-5,6) - (-3,3)^2 \\ & = (-16,56) \div (-1,6) + (-5,6) - \underline{(-3,3)^2} \\ & = \underline{(-16,56) \div (-1,6)} + (-5,6) - 10,89 \\ & = \underline{10,35 + (-5,6)} - 10,89 \\ & = \underline{4,75 - 10,89} \\ & = -6,14 \end{aligned}$$

$$\begin{aligned} & \left(\underline{2,1 \times (-4,1)} + (-0,2) - 8,3 \right) \div (0,5)^2 \\ & = \left(\underline{(-8,61) + (-0,2)} - 8,3 \right) \div (0,5)^2 \\ & = \left(\underline{(-8,81) - 8,3} \right) \div (0,5)^2 \\ & = (-17,11) \div \underline{(0,5)^2} \\ & = \underline{(-17,11) \div 0,25} \\ & = -68,44 \end{aligned}$$

$$\begin{aligned} & (-0,3)^2 + 2,4 \times \left(\underline{3,8 - 1,25} \right) \div (-5,1) \\ & = \underline{(-0,3)^2} + 2,4 \times 2,55 \div (-5,1) \\ & = 0,09 + \underline{2,4 \times 2,55} \div (-5,1) \\ & = 0,09 + \underline{6,12 \div (-5,1)} \\ & = \underline{0,09 + (-1,2)} \\ & = -1,11 \end{aligned}$$

$$\begin{aligned} & \left(\underline{(6,8)^2} \div 3,4 \right) \times (0,5 + 3,3 - 5,1) \\ & = \left(\underline{46,24 \div 3,4} \right) \times (0,5 + 3,3 - 5,1) \\ & = 13,6 \times \left(\underline{0,5 + 3,3} - 5,1 \right) \\ & = 13,6 \times \left(\underline{3,8 - 5,1} \right) \\ & = \underline{13,6 \times (-1,3)} \\ & = -17,68 \end{aligned}$$