

Order of Operations with Decimals (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(6,9 - (-8,1)) \times ((-6,9) + 5,6)^2$$

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

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

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

$$((2,5)^2 - 9,8) \times (6,9 + 1,5)$$

$$9,6 \times ((-9,6) - (-1,8) + 7,3)^2$$

$$(-8,3)^2 - 4,4 \times ((-1,7) + 0,2)$$

$$(-2,9)^2 + 6,8 \times ((-8,6) - 2,1)$$

Order of Operations with Decimals (C) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned}
 & \left(\underline{6,9} - (-8,1) \right) \times ((-6,9) + 5,6)^2 \\
 &= 15 \times \left(\underline{(-6,9)} + \underline{5,6} \right)^2 \\
 &= 15 \times \underline{(-1,3)}^2 \\
 &= \underline{15 \times 1,69} \\
 &= 25,35
 \end{aligned}$$

$$\begin{aligned}
 & \left(\underline{7,9} - (-8,9) + (-2,2) \right) \times (-1,5)^2 \\
 &= \left(\underline{16,8} + \underline{(-2,2)} \right) \times (-1,5)^2 \\
 &= 14,6 \times \underline{(-1,5)}^2 \\
 &= \underline{14,6 \times 2,25} \\
 &= 32,85
 \end{aligned}$$

$$\begin{aligned}
 & (-2,2) - (9,2)^2 \div \left(\underline{(-6,4)} \times \underline{2,5} \right) \\
 &= (-2,2) - \underline{(9,2)}^2 \div (-16) \\
 &= (-2,2) - \underline{84,64 \div (-16)} \\
 &= \underline{(-2,2) - (-5,29)} \\
 &= 3,09
 \end{aligned}$$

$$\begin{aligned}
 & \left(\underline{(-6,4)} - (-8,2) \right) \times (-5,1) + (0,3)^2 \\
 &= 1,8 \times (-5,1) + \underline{(0,3)}^2 \\
 &= \underline{1,8 \times (-5,1)} + 0,09 \\
 &= \underline{(-9,18)} + 0,09 \\
 &= -9,09
 \end{aligned}$$

$$\begin{aligned}
 & \left(\underline{(2,5)}^2 - 9,8 \right) \times (6,9 + 1,5) \\
 &= \left(\underline{6,25} - \underline{9,8} \right) \times (6,9 + 1,5) \\
 &= (-3,55) \times \left(\underline{6,9} + \underline{1,5} \right) \\
 &= \underline{(-3,55) \times 8,4} \\
 &= -29,82
 \end{aligned}$$

$$\begin{aligned}
 & 9,6 \times \left(\underline{(-9,6)} - \underline{(-1,8)} + 7,3 \right)^2 \\
 &= 9,6 \times \left(\underline{(-7,8)} + \underline{7,3} \right)^2 \\
 &= 9,6 \times \underline{(-0,5)}^2 \\
 &= \underline{9,6 \times 0,25} \\
 &= 2,4
 \end{aligned}$$

$$\begin{aligned}
 & (-8,3)^2 - 4,4 \times \left(\underline{(-1,7)} + \underline{0,2} \right) \\
 &= \underline{(-8,3)}^2 - 4,4 \times (-1,5) \\
 &= 68,89 - \underline{4,4 \times (-1,5)} \\
 &= \underline{68,89} - \underline{(-6,6)} \\
 &= 75,49
 \end{aligned}$$

$$\begin{aligned}
 & (-2,9)^2 + 6,8 \times \left(\underline{(-8,6)} - \underline{2,1} \right) \\
 &= \underline{(-2,9)}^2 + 6,8 \times (-10,7) \\
 &= 8,41 + \underline{6,8 \times (-10,7)} \\
 &= \underline{8,41} + \underline{(-72,76)} \\
 &= -64,35
 \end{aligned}$$