

# Order of Operations with Decimals (E)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

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

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

$$(2,5)^2 \times ((-4,6) - 7,6 + (-0,8))$$

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

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

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

$$(-8,2) \times ((-3,4) - (-1,9) + 2,5)^2$$

$$(0,5 \times 9,4)^2 \div 4,7 - 5,4$$

# Order of Operations with Decimals (E) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

$$\begin{aligned}
 & \left( \underline{(-4,5)^2} + (-7,8) - 8,4 \right) \times (-5,2) \\
 &= \left( \underline{20,25 + (-7,8)} - 8,4 \right) \times (-5,2) \\
 &= \left( \underline{12,45 - 8,4} \right) \times (-5,2) \\
 &= \underline{4,05 \times (-5,2)} \\
 &= \underline{-21,06}
 \end{aligned}$$

$$\begin{aligned}
 & \left( \underline{(-0,1) + (-8,3)} \right) \div (-2,5) - (1,4)^2 \\
 &= (-8,4) \div (-2,5) - \underline{(1,4)^2} \\
 &= \underline{(-8,4) \div (-2,5)} - 1,96 \\
 &= \underline{3,36 - 1,96} \\
 &= \underline{1,4}
 \end{aligned}$$

$$\begin{aligned}
 & (2,5)^2 \times \left( \underline{(-4,6) - 7,6} + (-0,8) \right) \\
 &= (2,5)^2 \times \left( \underline{(-12,2) + (-0,8)} \right) \\
 &= \underline{(2,5)^2} \times (-13) \\
 &= \underline{6,25 \times (-13)} \\
 &= \underline{-81,25}
 \end{aligned}$$

$$\begin{aligned}
 & \left( \underline{(-3,8) - (-8,3)} + (-3,5) \right) \times (-4,6)^2 \\
 &= \left( \underline{4,5 + (-3,5)} \right) \times (-4,6)^2 \\
 &= 1 \times \underline{(-4,6)^2} \\
 &= \underline{1 \times 21,16} \\
 &= \underline{21,16}
 \end{aligned}$$

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

$$\begin{aligned}
 & (4,3)^2 + (-4,8) \times \left( \underline{4,4 - 5,2} \right) \\
 &= \underline{(4,3)^2} + (-4,8) \times (-0,8) \\
 &= 18,49 + \underline{(-4,8) \times (-0,8)} \\
 &= \underline{18,49 + 3,84} \\
 &= \underline{22,33}
 \end{aligned}$$

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

$$\begin{aligned}
 & \left( \underline{0,5 \times 9,4} \right)^2 \div 4,7 - 5,4 \\
 &= \underline{(4,7)^2} \div 4,7 - 5,4 \\
 &= \underline{22,09 \div 4,7} - 5,4 \\
 &= \underline{4,7 - 5,4} \\
 &= \underline{-0,7}
 \end{aligned}$$