

Order of Operations with Decimals (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(9,7)^2 + 4,3 \times (4,6 \div (-2,3) - 3,9)$$

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

$$(1,25 - (0,9)^2 + (-2,8)) \times (3,75 \div (-0,5))$$

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

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

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

Order of Operations with Decimals (H) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned}(9,7)^2 + 4,3 \times (4,6 \div (-2,3) - 3,9) \\ &= (9,7)^2 + 4,3 \times ((-2) - 3,9) \\ &= \underline{(9,7)^2} + 4,3 \times (-5,9) \\ &= 94,09 + \underline{4,3 \times (-5,9)} \\ &= \underline{94,09 + (-25,37)} \\ &= 68,72\end{aligned}$$

$$\begin{aligned}((-8,5) - (-6,6) + (-9,6)) \times 1,8 \div (-0,6)^2 \\ &= \underline{((-1,9) + (-9,6))} \times 1,8 \div (-0,6)^2 \\ &= (-11,5) \times 1,8 \div \underline{(-0,6)^2} \\ &= \underline{(-11,5) \times 1,8} \div 0,36 \\ &= \underline{(-20,7) \div 0,36} \\ &= -57,5\end{aligned}$$

$$\begin{aligned}(1,25 - \underline{(0,9)^2} + (-2,8)) \times (3,75 \div (-0,5)) \\ &= \underline{(1,25 - 0,81 + (-2,8))} \times (3,75 \div (-0,5)) \\ &= \underline{(0,44 + (-2,8))} \times (3,75 \div (-0,5)) \\ &= (-2,36) \times \underline{(3,75 \div (-0,5))} \\ &= \underline{(-2,36) \times (-7,5)} \\ &= 17,7\end{aligned}$$

$$\begin{aligned}(8,5 - (-4,2) \times (-2,1) + \underline{(0,4)^2}) \div (-3,2) \\ &= (8,5 - \underline{(-4,2) \times (-2,1)} + 0,16) \div (-3,2) \\ &= \underline{(8,5 - 8,82 + 0,16)} \div (-3,2) \\ &= \underline{((-0,32) + 0,16)} \div (-3,2) \\ &= \underline{(-0,16) \div (-3,2)} \\ &= 0,05\end{aligned}$$

$$\begin{aligned}((-7,2) + \underline{3,5 \times 5,8} - 9,2)^2 \div 4,5 \\ &= \underline{((-7,2) + 20,3 - 9,2)}^2 \div 4,5 \\ &= \underline{(13,1 - 9,2)}^2 \div 4,5 \\ &= \underline{(3,9)^2} \div 4,5 \\ &= \underline{15,21 \div 4,5} \\ &= 3,38\end{aligned}$$

$$\begin{aligned}(2,8)^2 \div \underline{(3,1 - (-2,5))} \times ((-5,4) + 1,7) \\ &= (2,8)^2 \div 5,6 \times \underline{((-5,4) + 1,7)} \\ &= \underline{(2,8)^2} \div 5,6 \times (-3,7) \\ &= \underline{7,84 \div 5,6} \times (-3,7) \\ &= \underline{1,4 \times (-3,7)} \\ &= -5,18\end{aligned}$$