

Order of Operations with Decimals (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$(6,4 - (1,5)^2 + 1,25) \times 4,9$$

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

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

$$(2,8)^2 + 8,8 \times (2,5 \div 1,25)$$

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

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

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

Order of Operations with Decimals (H) Answers

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Date: _____

Simplify each expression using the correct order of operations.

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

$$\begin{aligned} & (6,4 - \underline{(1,5)^2} + 1,25) \times 4,9 \\ & = (\underline{6,4 - 2,25} + 1,25) \times 4,9 \\ & = (\underline{4,15 + 1,25}) \times 4,9 \\ & = \underline{5,4 \times 4,9} \\ & = 26,46 \end{aligned}$$

$$\begin{aligned} & 9,4 - (8,4)^2 \div (\underline{3,1 + 8,1}) \\ & = 9,4 - \underline{(8,4)^2} \div 11,2 \\ & = 9,4 - \underline{70,56 \div 11,2} \\ & = \underline{9,4 - 6,3} \\ & = 3,1 \end{aligned}$$

$$\begin{aligned} & (2,5)^2 \times (\underline{1,9 + 6,3} - 2,2) \\ & = (2,5)^2 \times (\underline{8,2 - 2,2}) \\ & = \underline{(2,5)^2} \times 6 \\ & = \underline{6,25 \times 6} \\ & = 37,5 \end{aligned}$$

$$\begin{aligned} & (2,8)^2 + 8,8 \times (\underline{2,5 \div 1,25}) \\ & = \underline{(2,8)^2} + 8,8 \times 2 \\ & = 7,84 + \underline{8,8 \times 2} \\ & = \underline{7,84 + 17,6} \\ & = 25,44 \end{aligned}$$

$$\begin{aligned} & (6,4 + \underline{(7,5)^2}) \div 2,5 - 9,9 \\ & = (\underline{6,4 + 56,25}) \div 2,5 - 9,9 \\ & = \underline{62,65 \div 2,5} - 9,9 \\ & = \underline{25,06 - 9,9} \\ & = 15,16 \end{aligned}$$

$$\begin{aligned} & (\underline{9,5 - 5,9}) \times 6,2 + (1,2)^2 \\ & = 3,6 \times 6,2 + \underline{(1,2)^2} \\ & = \underline{3,6 \times 6,2} + 1,44 \\ & = \underline{22,32 + 1,44} \\ & = 23,76 \end{aligned}$$

$$\begin{aligned} & (2,2)^2 \times (\underline{5,9 + 4,6}) \div 1,1 \\ & = \underline{(2,2)^2} \times 10,5 \div 1,1 \\ & = \underline{4,84 \times 10,5} \div 1,1 \\ & = \underline{50,82 \div 1,1} \\ & = 46,2 \end{aligned}$$