

Order of Operations with Decimals (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$0.8 \div ((-8.3) + 9.1)^2$$

$$6.4 \times 0.5 + (3.3)^2$$

$$(2.6 + 3.9)^2 \times 0.8$$

$$((-1.5) + 8.7) \div (-0.3)^2$$

$$(2.2)^2 \times (-7.5) + 5.2$$

$$(7.5)^2 + 1.5 \times 6.4$$

$$(-2.8)^2 - 9.7 \times (-1.7)$$

$$(-1.6)^2 + 9.5 \times (-0.2)$$

$$0.8 \times (-0.5) - (-4.6)^2$$

$$(-5.6) \times (-7.9) - (9.9)^2$$

Order of Operations with Decimals (C) Answers

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Simplify each expression using the correct order of operations.

$$\begin{aligned} &0.8 \div \left(\underline{(-8.3) + 9.1} \right)^2 \\ &= 0.8 \div \underline{(0.8)^2} \\ &= \underline{0.8 \div 0.64} \\ &= \underline{1.25} \end{aligned}$$

$$\begin{aligned} &6.4 \times 0.5 + \underline{(3.3)^2} \\ &= \underline{6.4 \times 0.5} + 10.89 \\ &= \underline{3.2 + 10.89} \\ &= \underline{14.09} \end{aligned}$$

$$\begin{aligned} &\underline{(2.6 + 3.9)^2} \times 0.8 \\ &= \underline{(6.5)^2} \times 0.8 \\ &= \underline{42.25 \times 0.8} \\ &= \underline{33.8} \end{aligned}$$

$$\begin{aligned} &\left(\underline{(-1.5) + 8.7} \right) \div (-0.3)^2 \\ &= 7.2 \div \underline{(-0.3)^2} \\ &= \underline{7.2 \div 0.09} \\ &= \underline{80} \end{aligned}$$

$$\begin{aligned} &\underline{(2.2)^2} \times (-7.5) + 5.2 \\ &= \underline{4.84 \times (-7.5)} + 5.2 \\ &= \underline{(-36.3) + 5.2} \\ &= \underline{-31.1} \end{aligned}$$

$$\begin{aligned} &\underline{(7.5)^2} + 1.5 \times 6.4 \\ &= 56.25 + \underline{1.5 \times 6.4} \\ &= \underline{56.25 + 9.6} \\ &= \underline{65.85} \end{aligned}$$

$$\begin{aligned} &\underline{(-2.8)^2} - 9.7 \times (-1.7) \\ &= 7.84 - \underline{9.7 \times (-1.7)} \\ &= \underline{7.84 - (-16.49)} \\ &= \underline{24.33} \end{aligned}$$

$$\begin{aligned} &\underline{(-1.6)^2} + 9.5 \times (-0.2) \\ &= 2.56 + \underline{9.5 \times (-0.2)} \\ &= \underline{2.56 + (-1.9)} \\ &= \underline{0.66} \end{aligned}$$

$$\begin{aligned} &0.8 \times (-0.5) - \underline{(-4.6)^2} \\ &= \underline{0.8 \times (-0.5)} - 21.16 \\ &= \underline{(-0.4) - 21.16} \\ &= \underline{-21.56} \end{aligned}$$

$$\begin{aligned} &(-5.6) \times (-7.9) - \underline{(9.9)^2} \\ &= \underline{(-5.6) \times (-7.9)} - 98.01 \\ &= \underline{44.24 - 98.01} \\ &= \underline{-53.77} \end{aligned}$$