

Order of Operations with Decimals (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(-8.2) \times 5.7 + (-7.9)^2$$

$$8.8 \times 0.9 - (-2.6)^2$$

$$6.7 - (-5.5)^2 \times 3.2$$

$$(2.9)^2 + 8.3 \times 6.6$$

$$(2.9)^2 - (-0.1) \times (-7.6)$$

$$(0.7)^2 + 5.4 \times (-9.8)$$

$$0.6 \times 7.5 + (-0.8)^2$$

$$(-1.3) \times 2.8 - (6.1)^2$$

$$(2.4)^2 - 8.2 \times (-6.1)$$

$$(-8.4)^2 \div 6.3 - (-2.4)$$

Order of Operations with Decimals (J) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (-8.2) \times 5.7 + \underline{(-7.9)^2} \\ & = \underline{(-8.2) \times 5.7} + 62.41 \\ & = \underline{(-46.74) + 62.41} \\ & = 15.67 \end{aligned}$$

$$\begin{aligned} & 8.8 \times 0.9 - \underline{(-2.6)^2} \\ & = \underline{8.8 \times 0.9} - 6.76 \\ & = \underline{7.92} - 6.76 \\ & = 1.16 \end{aligned}$$

$$\begin{aligned} & 6.7 - \underline{(-5.5)^2} \times 3.2 \\ & = 6.7 - \underline{30.25 \times 3.2} \\ & = \underline{6.7 - 96.8} \\ & = -90.1 \end{aligned}$$

$$\begin{aligned} & \underline{(2.9)^2} + 8.3 \times 6.6 \\ & = 8.41 + \underline{8.3 \times 6.6} \\ & = \underline{8.41 + 54.78} \\ & = 63.19 \end{aligned}$$

$$\begin{aligned} & \underline{(2.9)^2} - (-0.1) \times (-7.6) \\ & = 8.41 - \underline{(-0.1) \times (-7.6)} \\ & = \underline{8.41 - 0.76} \\ & = 7.65 \end{aligned}$$

$$\begin{aligned} & \underline{(0.7)^2} + 5.4 \times (-9.8) \\ & = 0.49 + \underline{5.4 \times (-9.8)} \\ & = \underline{0.49 + (-52.92)} \\ & = -52.43 \end{aligned}$$

$$\begin{aligned} & 0.6 \times 7.5 + \underline{(-0.8)^2} \\ & = \underline{0.6 \times 7.5} + 0.64 \\ & = \underline{4.5 + 0.64} \\ & = 5.14 \end{aligned}$$

$$\begin{aligned} & (-1.3) \times 2.8 - \underline{(6.1)^2} \\ & = \underline{(-1.3) \times 2.8} - 37.21 \\ & = \underline{(-3.64) - 37.21} \\ & = -40.85 \end{aligned}$$

$$\begin{aligned} & \underline{(2.4)^2} - 8.2 \times (-6.1) \\ & = 5.76 - \underline{8.2 \times (-6.1)} \\ & = \underline{5.76 - (-50.02)} \\ & = 55.78 \end{aligned}$$

$$\begin{aligned} & \underline{(-8.4)^2} \div 6.3 - (-2.4) \\ & = \underline{70.56 \div 6.3} - (-2.4) \\ & = \underline{11.2 - (-2.4)} \\ & = 13.6 \end{aligned}$$