

Order of Operations with Decimals (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$1.4 \times (-9.7) - (4.2)^2$$

$$(-0.1) - 4.8 \times (1.5)^2$$

$$(6.5)^2 \div 2.5 + (-7.5)$$

$$(-5.8)^2 - (-3.3) \times (-3.4)$$

$$(7.9 - 8.1) \times (-1.5)^2$$

$$((4.1)^2 - 2.5) \div 0.5$$

$$(-7.2)^2 + (-1.4) \times (-9.5)$$

$$(-1.9)^2 - (-4.1) \times (-9.1)$$

$$(-3.5) \times (2.2)^2 - 1.1$$

$$(-6.6) \times ((1.5)^2 + (-9.2))$$

Order of Operations with Decimals (E) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 1.4 \times (-9.7) - \underline{(4.2)^2} \\ & = \underline{1.4 \times (-9.7)} - 17.64 \\ & = \underline{(-13.58)} - 17.64 \\ & = -31.22 \end{aligned}$$

$$\begin{aligned} & (-0.1) - 4.8 \times \underline{(1.5)^2} \\ & = (-0.1) - \underline{4.8 \times 2.25} \\ & = \underline{(-0.1) - 10.8} \\ & = -10.9 \end{aligned}$$

$$\begin{aligned} & \underline{(6.5)^2} \div 2.5 + (-7.5) \\ & = \underline{42.25 \div 2.5} + (-7.5) \\ & = \underline{16.9} + (-7.5) \\ & = 9.4 \end{aligned}$$

$$\begin{aligned} & \underline{(-5.8)^2} - (-3.3) \times (-3.4) \\ & = 33.64 - \underline{(-3.3) \times (-3.4)} \\ & = \underline{33.64 - 11.22} \\ & = 22.42 \end{aligned}$$

$$\begin{aligned} & \underline{(7.9 - 8.1)} \times (-1.5)^2 \\ & = (-0.2) \times \underline{(-1.5)^2} \\ & = \underline{(-0.2) \times 2.25} \\ & = -0.45 \end{aligned}$$

$$\begin{aligned} & \underline{((4.1)^2 - 2.5)} \div 0.5 \\ & = \underline{(16.81 - 2.5)} \div 0.5 \\ & = \underline{14.31 \div 0.5} \\ & = 28.62 \end{aligned}$$

$$\begin{aligned} & \underline{(-7.2)^2} + (-1.4) \times (-9.5) \\ & = 51.84 + \underline{(-1.4) \times (-9.5)} \\ & = \underline{51.84 + 13.3} \\ & = 65.14 \end{aligned}$$

$$\begin{aligned} & \underline{(-1.9)^2} - (-4.1) \times (-9.1) \\ & = 3.61 - \underline{(-4.1) \times (-9.1)} \\ & = \underline{3.61 - 37.31} \\ & = -33.7 \end{aligned}$$

$$\begin{aligned} & (-3.5) \times \underline{(2.2)^2} - 1.1 \\ & = \underline{(-3.5) \times 4.84} - 1.1 \\ & = \underline{(-16.94) - 1.1} \\ & = -18.04 \end{aligned}$$

$$\begin{aligned} & (-6.6) \times \underline{((1.5)^2 + (-9.2))} \\ & = (-6.6) \times \underline{(2.25 + (-9.2))} \\ & = \underline{(-6.6) \times (-6.95)} \\ & = 45.87 \end{aligned}$$