

Order of Operations with Decimals (A)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\left((-6.6) + (-9.2) - (-6.4)^2\right) \div 2.2$$

$$(-1.8)^2 + 2.5 \times ((-4.5) - (-7.7))$$

$$\left((-7.2)^2 - 6.4\right) \times (1.8 + (-0.8))$$

$$(9.5 - (-0.1)) \times (2.5)^2 + (-3.7)$$

$$\left((-4.1) + (-8.6) - (0.5)^2\right) \times 7.2$$

$$(7.5 + 3.2) \times (1.2 - 2.2)^2$$

$$\left(3.1 + (-7.3) - (0.5)^2\right) \times (-2.6)$$

$$\left(2.2 + (-0.6)^2 - 1.4\right) \times (-2.5)$$

Order of Operations with Decimals (A) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & ((-6.6) + (-9.2) - \underline{(-6.4)^2}) \div 2.2 \\ &= (\underline{(-6.6) + (-9.2)} - 40.96) \div 2.2 \\ &= (\underline{(-15.8) - 40.96}) \div 2.2 \\ &= \underline{(-56.76) \div 2.2} \\ &= -25.8 \end{aligned}$$

$$\begin{aligned} & (-1.8)^2 + 2.5 \times (\underline{(-4.5) - (-7.7)}) \\ &= \underline{(-1.8)^2} + 2.5 \times 3.2 \\ &= 3.24 + \underline{2.5 \times 3.2} \\ &= \underline{3.24 + 8} \\ &= 11.24 \end{aligned}$$

$$\begin{aligned} & (\underline{(-7.2)^2} - 6.4) \times (1.8 + (-0.8)) \\ &= (\underline{51.84 - 6.4}) \times (1.8 + (-0.8)) \\ &= 45.44 \times (\underline{1.8 + (-0.8)}) \\ &= \underline{45.44 \times 1} \\ &= 45.44 \end{aligned}$$

$$\begin{aligned} & (\underline{9.5 - (-0.1)}) \times (2.5)^2 + (-3.7) \\ &= 9.6 \times \underline{(2.5)^2} + (-3.7) \\ &= \underline{9.6 \times 6.25} + (-3.7) \\ &= \underline{60 + (-3.7)} \\ &= 56.3 \end{aligned}$$

$$\begin{aligned} & ((-4.1) + (-8.6) - \underline{(0.5)^2}) \times 7.2 \\ &= (\underline{(-4.1) + (-8.6)} - 0.25) \times 7.2 \\ &= (\underline{(-12.7) - 0.25}) \times 7.2 \\ &= \underline{(-12.95) \times 7.2} \\ &= -93.24 \end{aligned}$$

$$\begin{aligned} & (\underline{7.5 + 3.2}) \times (1.2 - 2.2)^2 \\ &= 10.7 \times \underline{(1.2 - 2.2)^2} \\ &= 10.7 \times \underline{(-1)^2} \\ &= \underline{10.7 \times 1} \\ &= 10.7 \end{aligned}$$

$$\begin{aligned} & (3.1 + (-7.3) - \underline{(0.5)^2}) \times (-2.6) \\ &= (\underline{3.1 + (-7.3)} - 0.25) \times (-2.6) \\ &= (\underline{(-4.2) - 0.25}) \times (-2.6) \\ &= \underline{(-4.45) \times (-2.6)} \\ &= 11.57 \end{aligned}$$

$$\begin{aligned} & (2.2 + \underline{(-0.6)^2} - 1.4) \times (-2.5) \\ &= (\underline{2.2 + 0.36} - 1.4) \times (-2.5) \\ &= (\underline{2.56 - 1.4}) \times (-2.5) \\ &= \underline{1.16 \times (-2.5)} \\ &= -2.9 \end{aligned}$$