

Order of Operations with Decimals (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$0.75 \times 3.2 + (9.1)^2 \div ((-2.3) - (-0.9))^2$$

$$((-5.4)^2 \div 3.6) \times 3.1 - (-2.2)^2 + (-3.2)$$

$$(((-8.9) + (-3.9)) \div 3.2) \times (-3.2) - 7.3 + (-4.6)^2$$

Order of Operations with Decimals (A) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 0.75 \times 3.2 + (9.1)^2 \div \left(\underline{(-2.3) - (-0.9)} \right)^2 \\ & = 0.75 \times 3.2 + \underline{(9.1)^2} \div (-1.4)^2 \\ & = 0.75 \times 3.2 + 82.81 \div \underline{(-1.4)^2} \\ & = \underline{0.75 \times 3.2} + 82.81 \div 1.96 \\ & = 2.4 + \underline{82.81 \div 1.96} \\ & = \underline{2.4 + 42.25} \\ & = 44.65 \end{aligned}$$

$$\begin{aligned} & \left(\underline{(-5.4)^2} \div 3.6 \right) \times 3.1 - (-2.2)^2 + (-3.2) \\ & = \left(\underline{29.16 \div 3.6} \right) \times 3.1 - (-2.2)^2 + (-3.2) \\ & = 8.1 \times 3.1 - \underline{(-2.2)^2} + (-3.2) \\ & = \underline{8.1 \times 3.1} - 4.84 + (-3.2) \\ & = \underline{25.11 - 4.84} + (-3.2) \\ & = \underline{20.27 + (-3.2)} \\ & = 17.07 \end{aligned}$$

$$\begin{aligned} & \left(\left(\underline{(-8.9) + (-3.9)} \right) \div 3.2 \right) \times (-3.2) - 7.3 + (-4.6)^2 \\ & = \left(\underline{(-12.8) \div 3.2} \right) \times (-3.2) - 7.3 + (-4.6)^2 \\ & = (-4) \times (-3.2) - 7.3 + \underline{(-4.6)^2} \\ & = \underline{(-4) \times (-3.2)} - 7.3 + 21.16 \\ & = \underline{12.8 - 7.3} + 21.16 \\ & = \underline{5.5 + 21.16} \\ & = 26.66 \end{aligned}$$