

Order of Operations with Decimals (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$1.4 \times ((-9.1) + 7.3 - (2.2)^2 \div (-8.8))$$

$$(-9.6)^2 + (-5.4) \div 1.8 \times (8.3 - 0.6)$$

$$5.7 + (-0.9) \div ((-4.3) - (-4.9)) \times (2.4)^2$$

$$((-7.4) \times (-0.1) - (-6.8)^2) \div (7.3 + (-4.7))$$

$$(-2.4)^2 \div (2.5 + 2.2 - 6.3) \times 4.7$$

$$((-4.2) \times 2.4) \div 1.8 - (-4.8)^2 + 1.4$$

Order of Operations with Decimals (A) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 1.4 \times \left((-9.1) + 7.3 - \underline{(2.2)^2} \div (-8.8) \right) \\ &= 1.4 \times \left((-9.1) + 7.3 - \underline{4.84 \div (-8.8)} \right) \\ &= 1.4 \times \left(\underline{(-9.1) + 7.3} - (-0.55) \right) \\ &= 1.4 \times \left(\underline{(-1.8) - (-0.55)} \right) \\ &= \underline{1.4 \times (-1.25)} \\ &= -1.75 \end{aligned}$$

$$\begin{aligned} & (-9.6)^2 + (-5.4) \div 1.8 \times \underline{(8.3 - 0.6)} \\ &= \underline{(-9.6)^2} + (-5.4) \div 1.8 \times 7.7 \\ &= 92.16 + \underline{(-5.4) \div 1.8} \times 7.7 \\ &= 92.16 + \underline{(-3) \times 7.7} \\ &= \underline{92.16 + (-23.1)} \\ &= 69.06 \end{aligned}$$

$$\begin{aligned} & 5.7 + (-0.9) \div \left(\underline{(-4.3) - (-4.9)} \right) \times (2.4)^2 \\ &= 5.7 + (-0.9) \div 0.6 \times \underline{(2.4)^2} \\ &= 5.7 + \underline{(-0.9) \div 0.6} \times 5.76 \\ &= 5.7 + \underline{(-1.5) \times 5.76} \\ &= \underline{5.7 + (-8.64)} \\ &= -2.94 \end{aligned}$$

$$\begin{aligned} & \left((-7.4) \times (-0.1) - \underline{(-6.8)^2} \right) \div (7.3 + (-4.7)) \\ &= \left(\underline{(-7.4) \times (-0.1)} - 46.24 \right) \div (7.3 + (-4.7)) \\ &= \underline{(0.74 - 46.24)} \div (7.3 + (-4.7)) \\ &= (-45.5) \div \underline{(7.3 + (-4.7))} \\ &= \underline{(-45.5) \div 2.6} \\ &= -17.5 \end{aligned}$$

$$\begin{aligned} & (-2.4)^2 \div \left(\underline{2.5 + 2.2} - 6.3 \right) \times 4.7 \\ &= (-2.4)^2 \div \left(\underline{4.7 - 6.3} \right) \times 4.7 \\ &= \underline{(-2.4)^2} \div (-1.6) \times 4.7 \\ &= \underline{5.76 \div (-1.6)} \times 4.7 \\ &= \underline{(-3.6) \times 4.7} \\ &= -16.92 \end{aligned}$$

$$\begin{aligned} & \left(\underline{(-4.2) \times 2.4} \right) \div 1.8 - (-4.8)^2 + 1.4 \\ &= (-10.08) \div 1.8 - \underline{(-4.8)^2} + 1.4 \\ &= \underline{(-10.08) \div 1.8} - 23.04 + 1.4 \\ &= \underline{(-5.6) - 23.04} + 1.4 \\ &= \underline{(-28.64) + 1.4} \\ &= -27.24 \end{aligned}$$