

Order of Operations with Decimals (A) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \underline{(5.9 - 5.3)} \times 7.2 + (1.4)^2 \\ & = 0.6 \times 7.2 + \underline{(1.4)^2} \\ & = \underline{0.6 \times 7.2} + 1.96 \\ & = \underline{4.32 + 1.96} \\ & = 6.28 \end{aligned}$$

$$\begin{aligned} & \underline{((2.1)^2 + 5.2 - 7.2)} \times 7.1 \\ & = \underline{(4.41 + 5.2 - 7.2)} \times 7.1 \\ & = \underline{(9.61 - 7.2)} \times 7.1 \\ & = \underline{2.41 \times 7.1} \\ & = 17.111 \end{aligned}$$

$$\begin{aligned} & 8.5 \times \left(\underline{(1.6)^2} + 2.4 - 2.1 \right) \\ & = 8.5 \times \underline{(2.56 + 2.4 - 2.1)} \\ & = 8.5 \times \underline{(4.96 - 2.1)} \\ & = \underline{8.5 \times 2.86} \\ & = 24.31 \end{aligned}$$

$$\begin{aligned} & (7.9)^2 + 4.2 \times \underline{(6.5 - 5.7)} \\ & = \underline{(7.9)^2} + 4.2 \times 0.8 \\ & = 62.41 + \underline{4.2 \times 0.8} \\ & = \underline{62.41 + 3.36} \\ & = 65.77 \end{aligned}$$

$$\begin{aligned} & (7.3)^2 + 9.1 \div \underline{(8.7 - 6.1)} \\ & = \underline{(7.3)^2} + 9.1 \div 2.6 \\ & = 53.29 + \underline{9.1 \div 2.6} \\ & = \underline{53.29 + 3.5} \\ & = 56.79 \end{aligned}$$

$$\begin{aligned} & (3.2)^2 \times \underline{(1.6 - 1.4 + 8.3)} \\ & = (3.2)^2 \times \underline{(0.2 + 8.3)} \\ & = \underline{(3.2)^2} \times 8.5 \\ & = \underline{10.24 \times 8.5} \\ & = 87.04 \end{aligned}$$

$$\begin{aligned} & \underline{(5.2 + 6.6 - 9.3)^2} \times 3.8 \\ & = \underline{(11.8 - 9.3)^2} \times 3.8 \\ & = \underline{(2.5)^2} \times 3.8 \\ & = \underline{6.25 \times 3.8} \\ & = 23.75 \end{aligned}$$

$$\begin{aligned} & 3.8 \times \left(9.5 + \underline{(2.5)^2} - 2.4 \right) \\ & = 3.8 \times \underline{(9.5 + 6.25 - 2.4)} \\ & = 3.8 \times \underline{(15.75 - 2.4)} \\ & = \underline{3.8 \times 13.35} \\ & = 50.73 \end{aligned}$$

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Simplify each expression using the correct order of operations.

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

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

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

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

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

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