

Order of Operations with Decimals (J)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\left((3.3)^2 \div (7.5 + 2.7 - 5.7) \right) \times 1.5$$

$$\left(8.2 - (4.5)^2 \div (3.3 + 4.8) \right) \times 1.2$$

$$\left(3.4 + (9.6)^2 - 1.5 \times 3.6 \right) \div 3.5$$

$$(7.2 + 9.8 - 2.5 \times 6.8) \div (4.8)^2$$

$$(1.1)^2 + 1.3 \times (2.9 - 3.6 \div 1.8)$$

$$\left((3.8)^2 \div 1.9 + 1.1 \right) \times 3.4 - 2.8$$

$$(3.6)^2 + 3.1 \times (3.8 \div (9.5 - 9.3))$$

$$(1.5 + 6.4 \div 1.6) \times 9.2 - (2.9)^2$$

Order of Operations with Decimals (J) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & \left((3.3)^2 \div (7.5 + 2.7 - 5.7) \right) \times 1.5 \\ &= \left((3.3)^2 \div (10.2 - 5.7) \right) \times 1.5 \\ &= \left(\underline{(3.3)^2} \div 4.5 \right) \times 1.5 \\ &= \underline{(10.89 \div 4.5)} \times 1.5 \\ &= \underline{2.42 \times 1.5} \\ &= \underline{3.63} \end{aligned}$$

$$\begin{aligned} & \left(3.4 + (9.6)^2 - 1.5 \times 3.6 \right) \div 3.5 \\ &= (3.4 + 92.16 - \underline{1.5 \times 3.6}) \div 3.5 \\ &= \underline{(3.4 + 92.16 - 5.4)} \div 3.5 \\ &= \underline{(95.56 - 5.4)} \div 3.5 \\ &= \underline{90.16 \div 3.5} \\ &= \underline{25.76} \end{aligned}$$

$$\begin{aligned} & (1.1)^2 + 1.3 \times (2.9 - \underline{3.6 \div 1.8}) \\ &= (1.1)^2 + 1.3 \times \underline{(2.9 - 2)} \\ &= \underline{(1.1)^2} + 1.3 \times 0.9 \\ &= 1.21 + \underline{1.3 \times 0.9} \\ &= \underline{1.21 + 1.17} \\ &= \underline{2.38} \end{aligned}$$

$$\begin{aligned} & (3.6)^2 + 3.1 \times (3.8 \div (9.5 - 9.3)) \\ &= (3.6)^2 + 3.1 \times \underline{(3.8 \div 0.2)} \\ &= \underline{(3.6)^2} + 3.1 \times 19 \\ &= 12.96 + \underline{3.1 \times 19} \\ &= \underline{12.96 + 58.9} \\ &= \underline{71.86} \end{aligned}$$

$$\begin{aligned} & \left(8.2 - (4.5)^2 \div (3.3 + 4.8) \right) \times 1.2 \\ &= \left(8.2 - \underline{(4.5)^2} \div 8.1 \right) \times 1.2 \\ &= (8.2 - \underline{20.25 \div 8.1}) \times 1.2 \\ &= \underline{(8.2 - 2.5)} \times 1.2 \\ &= \underline{5.7 \times 1.2} \\ &= \underline{6.84} \end{aligned}$$

$$\begin{aligned} & (7.2 + 9.8 - \underline{2.5 \times 6.8}) \div (4.8)^2 \\ &= \underline{(7.2 + 9.8 - 17)} \div (4.8)^2 \\ &= \underline{(17 - 17)} \div (4.8)^2 \\ &= \underline{0 \div (4.8)^2} \\ &= \underline{0 \div 23.04} \\ &= \underline{0} \end{aligned}$$

$$\begin{aligned} & \left(\underline{(3.8)^2} \div 1.9 + 1.1 \right) \times 3.4 - 2.8 \\ &= \underline{(14.44 \div 1.9 + 1.1)} \times 3.4 - 2.8 \\ &= \underline{(7.6 + 1.1)} \times 3.4 - 2.8 \\ &= \underline{8.7 \times 3.4} - 2.8 \\ &= \underline{29.58 - 2.8} \\ &= \underline{26.78} \end{aligned}$$

$$\begin{aligned} & (1.5 + \underline{6.4 \div 1.6}) \times 9.2 - (2.9)^2 \\ &= \underline{(1.5 + 4)} \times 9.2 - (2.9)^2 \\ &= 5.5 \times 9.2 - \underline{(2.9)^2} \\ &= \underline{5.5 \times 9.2} - 8.41 \\ &= \underline{50.6 - 8.41} \\ &= \underline{42.19} \end{aligned}$$