

Order of Operations with Decimals (J)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$1.8 \times ((1.5)^2 + 5.8 - 2.2)$$

$$1.3 - 7.2 \div (3.8 + (1.4)^2)$$

$$(4.5 + 8.2 - 9.8)^2 \div 2.9$$

$$(5.3 + 4.6 - 3.3)^2 \div 1.2$$

$$(1.8)^2 \times (7.1 + 6.2 - 5.3)$$

$$8.2 \times ((2.5)^2 - 2.6 + 4.9)$$

$$6.5 \div (4.7 + 1.8) \times (8.7)^2$$

$$(2.5)^2 \times (4.5 + 2.9 - 6.4)$$

Order of Operations with Decimals (J) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & 1.8 \times \left(\underline{(1.5)^2} + 5.8 - 2.2 \right) \\ &= 1.8 \times (\underline{2.25 + 5.8} - 2.2) \\ &= 1.8 \times (\underline{8.05 - 2.2}) \\ &= \underline{1.8 \times 5.85} \\ &= \underline{10.53} \end{aligned}$$

$$\begin{aligned} & 1.3 - 7.2 \div \left(3.8 + \underline{(1.4)^2} \right) \\ &= 1.3 - 7.2 \div (\underline{3.8 + 1.96}) \\ &= 1.3 - \underline{7.2 \div 5.76} \\ &= \underline{1.3 - 1.25} \\ &= \underline{0.05} \end{aligned}$$

$$\begin{aligned} & (\underline{4.5 + 8.2} - 9.8)^2 \div 2.9 \\ &= (\underline{12.7 - 9.8})^2 \div 2.9 \\ &= \underline{(2.9)^2} \div 2.9 \\ &= \underline{8.41 \div 2.9} \\ &= \underline{2.9} \end{aligned}$$

$$\begin{aligned} & (\underline{5.3 + 4.6} - 3.3)^2 \div 1.2 \\ &= (\underline{9.9 - 3.3})^2 \div 1.2 \\ &= \underline{(6.6)^2} \div 1.2 \\ &= \underline{43.56 \div 1.2} \\ &= \underline{36.3} \end{aligned}$$

$$\begin{aligned} & (1.8)^2 \times (\underline{7.1 + 6.2} - 5.3) \\ &= (1.8)^2 \times (\underline{13.3 - 5.3}) \\ &= \underline{(1.8)^2} \times 8 \\ &= \underline{3.24 \times 8} \\ &= \underline{25.92} \end{aligned}$$

$$\begin{aligned} & 8.2 \times \left(\underline{(2.5)^2} - 2.6 + 4.9 \right) \\ &= 8.2 \times (\underline{6.25 - 2.6} + 4.9) \\ &= 8.2 \times (\underline{3.65 + 4.9}) \\ &= \underline{8.2 \times 8.55} \\ &= \underline{70.11} \end{aligned}$$

$$\begin{aligned} & 6.5 \div (\underline{4.7 + 1.8}) \times (8.7)^2 \\ &= 6.5 \div 6.5 \times \underline{(8.7)^2} \\ &= \underline{6.5 \div 6.5} \times 75.69 \\ &= \underline{1 \times 75.69} \\ &= \underline{75.69} \end{aligned}$$

$$\begin{aligned} & (2.5)^2 \times (\underline{4.5 + 2.9} - 6.4) \\ &= (2.5)^2 \times (\underline{7.4 - 6.4}) \\ &= \underline{(2.5)^2} \times 1 \\ &= \underline{6.25 \times 1} \\ &= \underline{6.25} \end{aligned}$$