

Order of Operations with Decimals (I)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$6.4 \times (3.3 + (1.5)^2 - 5.3)$$

$$1.8 \times ((6.5)^2 - 7.9 + 4.6)$$

$$(7.2 + 8.4 - 7.6) \times (3.2)^2$$

$$(4.9 + 4.7) \times 1.2 - (2.4)^2$$

$$(3.3)^2 + 2.8 \times (5.4 - 5.2)$$

$$(9.8 - 7.8) \div 2.5 \times (8.5)^2$$

$$(2.2)^2 \times (9.7 - 8.9 + 1.7)$$

$$(2.6 - 2.2)^2 \div 3.2 + 2.7$$

Order of Operations with Decimals (I) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & 6.4 \times (3.3 + \underline{(1.5)^2} - 5.3) \\ & = 6.4 \times (\underline{3.3 + 2.25} - 5.3) \\ & = 6.4 \times (\underline{5.55 - 5.3}) \\ & = \underline{6.4 \times 0.25} \\ & = \underline{1.6} \end{aligned}$$

$$\begin{aligned} & 1.8 \times (\underline{(6.5)^2} - 7.9 + 4.6) \\ & = 1.8 \times (\underline{42.25 - 7.9} + 4.6) \\ & = 1.8 \times (\underline{34.35 + 4.6}) \\ & = \underline{1.8 \times 38.95} \\ & = \underline{70.11} \end{aligned}$$

$$\begin{aligned} & (\underline{7.2 + 8.4} - 7.6) \times (3.2)^2 \\ & = (\underline{15.6 - 7.6}) \times (3.2)^2 \\ & = 8 \times \underline{(3.2)^2} \\ & = \underline{8 \times 10.24} \\ & = \underline{81.92} \end{aligned}$$

$$\begin{aligned} & (\underline{4.9 + 4.7}) \times 1.2 - (2.4)^2 \\ & = 9.6 \times 1.2 - \underline{(2.4)^2} \\ & = \underline{9.6 \times 1.2} - 5.76 \\ & = \underline{11.52 - 5.76} \\ & = \underline{5.76} \end{aligned}$$

$$\begin{aligned} & (3.3)^2 + 2.8 \times (\underline{5.4 - 5.2}) \\ & = \underline{(3.3)^2} + 2.8 \times 0.2 \\ & = 10.89 + \underline{2.8 \times 0.2} \\ & = \underline{10.89 + 0.56} \\ & = \underline{11.45} \end{aligned}$$

$$\begin{aligned} & (\underline{9.8 - 7.8}) \div 2.5 \times (8.5)^2 \\ & = 2 \div 2.5 \times \underline{(8.5)^2} \\ & = \underline{2 \div 2.5} \times 72.25 \\ & = \underline{0.8 \times 72.25} \\ & = \underline{57.8} \end{aligned}$$

$$\begin{aligned} & (2.2)^2 \times (\underline{9.7 - 8.9} + 1.7) \\ & = (2.2)^2 \times (\underline{0.8 + 1.7}) \\ & = \underline{(2.2)^2} \times 2.5 \\ & = \underline{4.84 \times 2.5} \\ & = \underline{12.1} \end{aligned}$$

$$\begin{aligned} & (\underline{2.6 - 2.2})^2 \div 3.2 + 2.7 \\ & = \underline{(0.4)^2} \div 3.2 + 2.7 \\ & = \underline{0.16 \div 3.2} + 2.7 \\ & = \underline{0.05 + 2.7} \\ & = \underline{2.75} \end{aligned}$$