

Order of Operations with Decimals (E)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$5.6 \times ((3.5)^2 - 9.1 + 6.4)$$

$$1.25 - 2.1 \times ((1.6)^2 \div 6.4)$$

$$5.5 \times (7.8 + 4.8 - (2.6)^2)$$

$$(2.8 - 2.8) \times 3.75 + (4.5)^2$$

$$(6.5)^2 \times (2.5 + 7.1 - 7.8)$$

$$(7.2)^2 - 4.9 \times (5.1 + 3.1)$$

$$((2.7)^2 \div 8.1) \times 3.2 + 8.7$$

$$(3.9)^2 \div (6.5 - 5.2) \times 4.8$$

Order of Operations with Decimals (E) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & 5.6 \times \left((3.5)^2 - 9.1 + 6.4 \right) \\ &= 5.6 \times (12.25 - 9.1 + 6.4) \\ &= 5.6 \times (3.15 + 6.4) \\ &= \underline{5.6 \times 9.55} \\ &= 53.48 \end{aligned}$$

$$\begin{aligned} & 1.25 - 2.1 \times \left((1.6)^2 \div 6.4 \right) \\ &= 1.25 - 2.1 \times (2.56 \div 6.4) \\ &= 1.25 - \underline{2.1 \times 0.4} \\ &= \underline{1.25 - 0.84} \\ &= 0.41 \end{aligned}$$

$$\begin{aligned} & 5.5 \times \left(7.8 + 4.8 - (2.6)^2 \right) \\ &= 5.5 \times (7.8 + 4.8 - 6.76) \\ &= 5.5 \times (12.6 - 6.76) \\ &= \underline{5.5 \times 5.84} \\ &= 32.12 \end{aligned}$$

$$\begin{aligned} & (2.8 - 2.8) \times 3.75 + (4.5)^2 \\ &= 0 \times 3.75 + \underline{(4.5)^2} \\ &= \underline{0 \times 3.75} + 20.25 \\ &= \underline{0 + 20.25} \\ &= 20.25 \end{aligned}$$

$$\begin{aligned} & (6.5)^2 \times (2.5 + 7.1 - 7.8) \\ &= (6.5)^2 \times (9.6 - 7.8) \\ &= \underline{(6.5)^2} \times 1.8 \\ &= \underline{42.25 \times 1.8} \\ &= 76.05 \end{aligned}$$

$$\begin{aligned} & (7.2)^2 - 4.9 \times (5.1 + 3.1) \\ &= \underline{(7.2)^2} - 4.9 \times 8.2 \\ &= 51.84 - \underline{4.9 \times 8.2} \\ &= \underline{51.84 - 40.18} \\ &= 11.66 \end{aligned}$$

$$\begin{aligned} & \left((2.7)^2 \div 8.1 \right) \times 3.2 + 8.7 \\ &= (7.29 \div 8.1) \times 3.2 + 8.7 \\ &= \underline{0.9 \times 3.2} + 8.7 \\ &= \underline{2.88 + 8.7} \\ &= 11.58 \end{aligned}$$

$$\begin{aligned} & (3.9)^2 \div (6.5 - 5.2) \times 4.8 \\ &= \underline{(3.9)^2} \div 1.3 \times 4.8 \\ &= \underline{15.21 \div 1.3} \times 4.8 \\ &= \underline{11.7 \times 4.8} \\ &= 56.16 \end{aligned}$$