

Order of Operations with Decimals (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(1.3)^2 + 3.5 \times 8.1$$

$$(8.5)^2 - 7.2 \div 1.6$$

$$2.7 \times 4.6 + (5.2)^2$$

$$(8.9)^2 + 1.9 \times 2.5$$

$$6.2 \times ((2.5)^2 - 1.3)$$

$$(7.2)^2 - 1.4 \div 2.5$$

$$6.8 \times 3.5 + (4.1)^2$$

$$9.5 \times 5.3 + (1.6)^2$$

$$8.2 \times 5.5 + (3.9)^2$$

$$2.8 \times 3.3 + (3.6)^2$$

Order of Operations with Decimals (B) Answers

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Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \underline{(1.3)^2} + 3.5 \times 8.1 \\ & = 1.69 + \underline{3.5 \times 8.1} \\ & = \underline{1.69 + 28.35} \\ & = 30.04 \end{aligned}$$

$$\begin{aligned} & \underline{(8.5)^2} - 7.2 \div 1.6 \\ & = 72.25 - \underline{7.2 \div 1.6} \\ & = \underline{72.25 - 4.5} \\ & = 67.75 \end{aligned}$$

$$\begin{aligned} & 2.7 \times 4.6 + \underline{(5.2)^2} \\ & = \underline{2.7 \times 4.6} + 27.04 \\ & = \underline{12.42 + 27.04} \\ & = 39.46 \end{aligned}$$

$$\begin{aligned} & \underline{(8.9)^2} + 1.9 \times 2.5 \\ & = 79.21 + \underline{1.9 \times 2.5} \\ & = \underline{79.21 + 4.75} \\ & = 83.96 \end{aligned}$$

$$\begin{aligned} & 6.2 \times \left(\underline{(2.5)^2} - 1.3 \right) \\ & = 6.2 \times \underline{(6.25 - 1.3)} \\ & = \underline{6.2 \times 4.95} \\ & = 30.69 \end{aligned}$$

$$\begin{aligned} & \underline{(7.2)^2} - 1.4 \div 2.5 \\ & = 51.84 - \underline{1.4 \div 2.5} \\ & = \underline{51.84 - 0.56} \\ & = 51.28 \end{aligned}$$

$$\begin{aligned} & 6.8 \times 3.5 + \underline{(4.1)^2} \\ & = \underline{6.8 \times 3.5} + 16.81 \\ & = \underline{23.8 + 16.81} \\ & = 40.61 \end{aligned}$$

$$\begin{aligned} & 9.5 \times 5.3 + \underline{(1.6)^2} \\ & = \underline{9.5 \times 5.3} + 2.56 \\ & = \underline{50.35 + 2.56} \\ & = 52.91 \end{aligned}$$

$$\begin{aligned} & 8.2 \times 5.5 + \underline{(3.9)^2} \\ & = \underline{8.2 \times 5.5} + 15.21 \\ & = \underline{45.1 + 15.21} \\ & = 60.31 \end{aligned}$$

$$\begin{aligned} & 2.8 \times 3.3 + \underline{(3.6)^2} \\ & = \underline{2.8 \times 3.3} + 12.96 \\ & = \underline{9.24 + 12.96} \\ & = 22.2 \end{aligned}$$