

Order of Operations with Decimals (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$6.3 \times 4.4 + (3.6)^2$$

$$(8.3)^2 + 6.6 \times 3.9$$

$$(1.4)^2 + 2.1 \times 4.9$$

$$(1.1)^2 + 9.9 \times 7.8$$

$$(8.1)^2 - 8.8 \times 1.9$$

$$4.7 \times (5.6 - 1.6)^2$$

$$5.6 \times (2.5)^2 - 2.1$$

$$(4.5)^2 - 6.7 \times 2.4$$

$$2.5 \times (4.6)^2 + 5.7$$

$$2.2 \times 8.4 + (5.8)^2$$

Order of Operations with Decimals (J) Answers

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Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} &6.3 \times 4.4 + \underline{(3.6)^2} \\ &= \underline{6.3 \times 4.4} + 12.96 \\ &= \underline{27.72 + 12.96} \\ &= 40.68 \end{aligned}$$

$$\begin{aligned} &\underline{(8.3)^2} + 6.6 \times 3.9 \\ &= 68.89 + \underline{6.6 \times 3.9} \\ &= \underline{68.89 + 25.74} \\ &= 94.63 \end{aligned}$$

$$\begin{aligned} &\underline{(1.4)^2} + 2.1 \times 4.9 \\ &= 1.96 + \underline{2.1 \times 4.9} \\ &= \underline{1.96 + 10.29} \\ &= 12.25 \end{aligned}$$

$$\begin{aligned} &\underline{(1.1)^2} + 9.9 \times 7.8 \\ &= 1.21 + \underline{9.9 \times 7.8} \\ &= \underline{1.21 + 77.22} \\ &= 78.43 \end{aligned}$$

$$\begin{aligned} &\underline{(8.1)^2} - 8.8 \times 1.9 \\ &= 65.61 - \underline{8.8 \times 1.9} \\ &= \underline{65.61 - 16.72} \\ &= 48.89 \end{aligned}$$

$$\begin{aligned} &4.7 \times \underline{(5.6 - 1.6)^2} \\ &= 4.7 \times \underline{4^2} \\ &= \underline{4.7 \times 16} \\ &= 75.2 \end{aligned}$$

$$\begin{aligned} &5.6 \times \underline{(2.5)^2} - 2.1 \\ &= \underline{5.6 \times 6.25} - 2.1 \\ &= \underline{35 - 2.1} \\ &= 32.9 \end{aligned}$$

$$\begin{aligned} &\underline{(4.5)^2} - 6.7 \times 2.4 \\ &= 20.25 - \underline{6.7 \times 2.4} \\ &= \underline{20.25 - 16.08} \\ &= 4.17 \end{aligned}$$

$$\begin{aligned} &2.5 \times \underline{(4.6)^2} + 5.7 \\ &= \underline{2.5 \times 21.16} + 5.7 \\ &= \underline{52.9 + 5.7} \\ &= 58.6 \end{aligned}$$

$$\begin{aligned} &2.2 \times 8.4 + \underline{(5.8)^2} \\ &= \underline{2.2 \times 8.4} + 33.64 \\ &= \underline{18.48 + 33.64} \\ &= 52.12 \end{aligned}$$