

Order of Operations with Decimals (B)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$5.9 + 3.8 \times (5.4 - 3.9)^2$$

$$8.6 \times (9.5 + 6.2 - (3.5)^2)$$

$$(5.9)^2 - 7.8 \div (4.9 + 2.6)$$

$$(8.2)^2 - 9.3 \div (7.1 + 2.2)$$

$$(7.7)^2 + 4.9 \times (4.3 - 3.9)$$

$$1.2 \times (5.4 - 3.4 + 1.5)^2$$

$$(8.6 + (7.4)^2 - 9.5) \times 1.5$$

$$((6.6)^2 - 8.4 + 3.7) \div 5.8$$

Order of Operations with Decimals (B) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & 5.9 + 3.8 \times (5.4 - 3.9)^2 \\ & = 5.9 + 3.8 \times (1.5)^2 \\ & = 5.9 + 3.8 \times 2.25 \\ & = 5.9 + 8.55 \\ & = 14.45 \end{aligned}$$

$$\begin{aligned} & 8.6 \times (9.5 + 6.2 - (3.5)^2) \\ & = 8.6 \times (9.5 + 6.2 - 12.25) \\ & = 8.6 \times (15.7 - 12.25) \\ & = 8.6 \times 3.45 \\ & = 29.67 \end{aligned}$$

$$\begin{aligned} & (5.9)^2 - 7.8 \div (4.9 + 2.6) \\ & = (5.9)^2 - 7.8 \div 7.5 \\ & = 34.81 - 7.8 \div 7.5 \\ & = 34.81 - 1.04 \\ & = 33.77 \end{aligned}$$

$$\begin{aligned} & (8.2)^2 - 9.3 \div (7.1 + 2.2) \\ & = (8.2)^2 - 9.3 \div 9.3 \\ & = 67.24 - 9.3 \div 9.3 \\ & = 67.24 - 1 \\ & = 66.24 \end{aligned}$$

$$\begin{aligned} & (7.7)^2 + 4.9 \times (4.3 - 3.9) \\ & = (7.7)^2 + 4.9 \times 0.4 \\ & = 59.29 + 4.9 \times 0.4 \\ & = 59.29 + 1.96 \\ & = 61.25 \end{aligned}$$

$$\begin{aligned} & 1.2 \times (5.4 - 3.4 + 1.5)^2 \\ & = 1.2 \times (2 + 1.5)^2 \\ & = 1.2 \times (3.5)^2 \\ & = 1.2 \times 12.25 \\ & = 14.7 \end{aligned}$$

$$\begin{aligned} & (8.6 + (7.4)^2 - 9.5) \times 1.5 \\ & = (8.6 + 54.76 - 9.5) \times 1.5 \\ & = (63.36 - 9.5) \times 1.5 \\ & = 53.86 \times 1.5 \\ & = 80.79 \end{aligned}$$

$$\begin{aligned} & ((6.6)^2 - 8.4 + 3.7) \div 5.8 \\ & = (43.56 - 8.4 + 3.7) \div 5.8 \\ & = (35.16 + 3.7) \div 5.8 \\ & = 38.86 \div 5.8 \\ & = 6.7 \end{aligned}$$