

Order of Operations with Decimals (B)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\left((1.5)^2 \times 6.6 \right) \div \left(9.8 + 8.6 - (3.8)^2 \right)$$

$$\left((3.1)^2 - 3.4 + (6.3)^2 \right) \times (2.4 \div 1.6)$$

$$\left(9.8 \div (1.4)^2 \right) \times 3.5 - 3.1 + 2.7 \times 1.6$$

$$(8.4 \div 1.2) \times 6.7 + 1.1 - (4.1)^2 - 3.9$$

$$\left((4.8)^2 \div 3.6 \right) \times 1.25 + 3.3 - 7.2 + 1.9$$

$$6.1 \times \left((1.9 + 2.2 - 4.1) \div (1.6)^2 \right)^3$$

Order of Operations with Decimals (B) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & \left((1.5)^2 \times 6.6 \right) \div \left(9.8 + 8.6 - (3.8)^2 \right) \\ & = (2.25 \times 6.6) \div \left(9.8 + 8.6 - (3.8)^2 \right) \\ & = 14.85 \div \left(9.8 + 8.6 - (3.8)^2 \right) \\ & = 14.85 \div (9.8 + 8.6 - 14.44) \\ & = 14.85 \div (18.4 - 14.44) \\ & = \underline{14.85 \div 3.96} \\ & = 3.75 \end{aligned}$$

$$\begin{aligned} & \left((3.1)^2 - 3.4 + (6.3)^2 \right) \times (2.4 \div 1.6) \\ & = \left(9.61 - 3.4 + (6.3)^2 \right) \times (2.4 \div 1.6) \\ & = (9.61 - 3.4 + 39.69) \times (2.4 \div 1.6) \\ & = (6.21 + 39.69) \times (2.4 \div 1.6) \\ & = 45.9 \times (2.4 \div 1.6) \\ & = \underline{45.9 \times 1.5} \\ & = 68.85 \end{aligned}$$

$$\begin{aligned} & \left(9.8 \div (1.4)^2 \right) \times 3.5 - 3.1 + 2.7 \times 1.6 \\ & = (9.8 \div 1.96) \times 3.5 - 3.1 + 2.7 \times 1.6 \\ & = 5 \times 3.5 - 3.1 + 2.7 \times 1.6 \\ & = 17.5 - 3.1 + \underline{2.7 \times 1.6} \\ & = \underline{17.5 - 3.1} + 4.32 \\ & = \underline{14.4 + 4.32} \\ & = 18.72 \end{aligned}$$

$$\begin{aligned} & (8.4 \div 1.2) \times 6.7 + 1.1 - (4.1)^2 - 3.9 \\ & = 7 \times 6.7 + 1.1 - (4.1)^2 - 3.9 \\ & = \underline{7 \times 6.7} + 1.1 - 16.81 - 3.9 \\ & = \underline{46.9 + 1.1} - 16.81 - 3.9 \\ & = \underline{48 - 16.81} - 3.9 \\ & = \underline{31.19 - 3.9} \\ & = 27.29 \end{aligned}$$

$$\begin{aligned} & \left((4.8)^2 \div 3.6 \right) \times 1.25 + 3.3 - 7.2 + 1.9 \\ & = (23.04 \div 3.6) \times 1.25 + 3.3 - 7.2 + 1.9 \\ & = \underline{6.4 \times 1.25} + 3.3 - 7.2 + 1.9 \\ & = \underline{8 + 3.3} - 7.2 + 1.9 \\ & = \underline{11.3 - 7.2} + 1.9 \\ & = \underline{4.1 + 1.9} \\ & = 6 \end{aligned}$$

$$\begin{aligned} & 6.1 \times \left((1.9 + 2.2 - 4.1) \div (1.6)^2 \right)^3 \\ & = 6.1 \times \left((4.1 - 4.1) \div (1.6)^2 \right)^3 \\ & = 6.1 \times \left(0 \div (1.6)^2 \right)^3 \\ & = 6.1 \times (0 \div 2.56)^3 \\ & = 6.1 \times \underline{0^3} \\ & = \underline{6.1 \times 0} \\ & = 0 \end{aligned}$$