

Order of Operations with Decimals (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(9.3 \times 8.6 - (6.1)^2) \div 1.3$$

$$(4.9)^2 + 2.2 \div (9.2 - 4.8)$$

$$4.4 \times ((4.5)^2 - 7.1 + 6.6)$$

$$2.8 + 7.2 \times (8.2 - 6.7)^2$$

$$(3.3 \times 7.8) \div 2.2 - (1.3)^2$$

$$(4.8 + 2.9 - 2.2)^2 \times 1.4$$

$$(1.3 + (5.5)^2) \times 1.6 - 1.2$$

$$(6.8 - 6.1) \times 4.9 + (6.5)^2$$

Order of Operations with Decimals (D) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (9.3 \times 8.6 - \underline{(6.1)^2}) \div 1.3 \\ & = \underline{(9.3 \times 8.6 - 37.21)} \div 1.3 \\ & = \underline{(79.98 - 37.21)} \div 1.3 \\ & = \underline{42.77 \div 1.3} \\ & = 32.9 \end{aligned}$$

$$\begin{aligned} & (4.9)^2 + 2.2 \div \underline{(9.2 - 4.8)} \\ & = \underline{(4.9)^2} + 2.2 \div 4.4 \\ & = 24.01 + \underline{2.2 \div 4.4} \\ & = \underline{24.01 + 0.5} \\ & = 24.51 \end{aligned}$$

$$\begin{aligned} & 4.4 \times \left(\underline{(4.5)^2} - 7.1 + 6.6 \right) \\ & = 4.4 \times \underline{(20.25 - 7.1 + 6.6)} \\ & = 4.4 \times \underline{(13.15 + 6.6)} \\ & = \underline{4.4 \times 19.75} \\ & = 86.9 \end{aligned}$$

$$\begin{aligned} & 2.8 + 7.2 \times \underline{(8.2 - 6.7)^2} \\ & = 2.8 + 7.2 \times \underline{(1.5)^2} \\ & = 2.8 + \underline{7.2 \times 2.25} \\ & = \underline{2.8 + 16.2} \\ & = 19 \end{aligned}$$

$$\begin{aligned} & \underline{(3.3 \times 7.8)} \div 2.2 - (1.3)^2 \\ & = 25.74 \div 2.2 - \underline{(1.3)^2} \\ & = \underline{25.74 \div 2.2} - 1.69 \\ & = \underline{11.7 - 1.69} \\ & = 10.01 \end{aligned}$$

$$\begin{aligned} & \underline{(4.8 + 2.9 - 2.2)^2} \times 1.4 \\ & = \underline{(7.7 - 2.2)^2} \times 1.4 \\ & = \underline{(5.5)^2} \times 1.4 \\ & = \underline{30.25 \times 1.4} \\ & = 42.35 \end{aligned}$$

$$\begin{aligned} & (1.3 + \underline{(5.5)^2}) \times 1.6 - 1.2 \\ & = \underline{(1.3 + 30.25)} \times 1.6 - 1.2 \\ & = \underline{31.55 \times 1.6} - 1.2 \\ & = \underline{50.48 - 1.2} \\ & = 49.28 \end{aligned}$$

$$\begin{aligned} & \underline{(6.8 - 6.1)} \times 4.9 + (6.5)^2 \\ & = 0.7 \times 4.9 + \underline{(6.5)^2} \\ & = \underline{0.7 \times 4.9} + 42.25 \\ & = \underline{3.43 + 42.25} \\ & = 45.68 \end{aligned}$$