

Order of Operations with Decimals (D)

Name: _____

Date: _____

Solve 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: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

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

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