

Order of Operations with Decimals (H)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$(3.7 + 2.1 - 3.8)^2 \times 1.2$$

$$(6.4 - (1.5)^2 + 1.25) \times 4.9$$

$$9.4 - (8.4)^2 \div (3.1 + 8.1)$$

$$(2.5)^2 \times (1.9 + 6.3 - 2.2)$$

$$(2.8)^2 + 8.8 \times (2.5 \div 1.25)$$

$$(6.4 + (7.5)^2) \div 2.5 - 9.9$$

$$(9.5 - 5.9) \times 6.2 + (1.2)^2$$

$$(2.2)^2 \times (5.9 + 4.6) \div 1.1$$

Order of Operations with Decimals (H) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & (3.7 + 2.1 - 3.8)^2 \times 1.2 \\ &= (5.8 - 3.8)^2 \times 1.2 \\ &= 2^2 \times 1.2 \\ &= 4 \times 1.2 \\ &= 4.8 \end{aligned}$$

$$\begin{aligned} & (6.4 - (1.5)^2 + 1.25) \times 4.9 \\ &= (6.4 - 2.25 + 1.25) \times 4.9 \\ &= (4.15 + 1.25) \times 4.9 \\ &= 5.4 \times 4.9 \\ &= 26.46 \end{aligned}$$

$$\begin{aligned} & 9.4 - (8.4)^2 \div (3.1 + 8.1) \\ &= 9.4 - (8.4)^2 \div 11.2 \\ &= 9.4 - 70.56 \div 11.2 \\ &= 9.4 - 6.3 \\ &= 3.1 \end{aligned}$$

$$\begin{aligned} & (2.5)^2 \times (1.9 + 6.3 - 2.2) \\ &= (2.5)^2 \times (8.2 - 2.2) \\ &= (2.5)^2 \times 6 \\ &= 6.25 \times 6 \\ &= 37.5 \end{aligned}$$

$$\begin{aligned} & (2.8)^2 + 8.8 \times (2.5 \div 1.25) \\ &= (2.8)^2 + 8.8 \times 2 \\ &= 7.84 + 8.8 \times 2 \\ &= 7.84 + 17.6 \\ &= 25.44 \end{aligned}$$

$$\begin{aligned} & (6.4 + (7.5)^2) \div 2.5 - 9.9 \\ &= (6.4 + 56.25) \div 2.5 - 9.9 \\ &= 62.65 \div 2.5 - 9.9 \\ &= 25.06 - 9.9 \\ &= 15.16 \end{aligned}$$

$$\begin{aligned} & (9.5 - 5.9) \times 6.2 + (1.2)^2 \\ &= 3.6 \times 6.2 + (1.2)^2 \\ &= 3.6 \times 6.2 + 1.44 \\ &= 22.32 + 1.44 \\ &= 23.76 \end{aligned}$$

$$\begin{aligned} & (2.2)^2 \times (5.9 + 4.6) \div 1.1 \\ &= (2.2)^2 \times 10.5 \div 1.1 \\ &= 4.84 \times 10.5 \div 1.1 \\ &= 50.82 \div 1.1 \\ &= 46.2 \end{aligned}$$