

Order of Operations with Decimals (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(5.9 - 5.3) \times 7.2 + (1.4)^2$$

$$((2.1)^2 + 5.2 - 7.2) \times 7.1$$

$$8.5 \times ((1.6)^2 + 2.4 - 2.1)$$

$$(7.9)^2 + 4.2 \times (6.5 - 5.7)$$

$$(7.3)^2 + 9.1 \div (8.7 - 6.1)$$

$$(3.2)^2 \times (1.6 - 1.4 + 8.3)$$

$$(5.2 + 6.6 - 9.3)^2 \times 3.8$$

$$3.8 \times (9.5 + (2.5)^2 - 2.4)$$

Order of Operations with Decimals (A) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \underline{(5.9 - 5.3)} \times 7.2 + (1.4)^2 \\ & = 0.6 \times 7.2 + \underline{(1.4)^2} \\ & = \underline{0.6 \times 7.2} + 1.96 \\ & = \underline{4.32 + 1.96} \\ & = 6.28 \end{aligned}$$

$$\begin{aligned} & \underline{(2.1)^2} + 5.2 - 7.2 \times 7.1 \\ & = \underline{(4.41 + 5.2 - 7.2)} \times 7.1 \\ & = \underline{(9.61 - 7.2)} \times 7.1 \\ & = \underline{2.41 \times 7.1} \\ & = 17.111 \end{aligned}$$

$$\begin{aligned} & 8.5 \times \left(\underline{(1.6)^2} + 2.4 - 2.1 \right) \\ & = 8.5 \times \underline{(2.56 + 2.4 - 2.1)} \\ & = 8.5 \times \underline{(4.96 - 2.1)} \\ & = \underline{8.5 \times 2.86} \\ & = 24.31 \end{aligned}$$

$$\begin{aligned} & (7.9)^2 + 4.2 \times \underline{(6.5 - 5.7)} \\ & = \underline{(7.9)^2} + 4.2 \times 0.8 \\ & = 62.41 + \underline{4.2 \times 0.8} \\ & = \underline{62.41 + 3.36} \\ & = 65.77 \end{aligned}$$

$$\begin{aligned} & (7.3)^2 + 9.1 \div \underline{(8.7 - 6.1)} \\ & = \underline{(7.3)^2} + 9.1 \div 2.6 \\ & = 53.29 + \underline{9.1 \div 2.6} \\ & = \underline{53.29 + 3.5} \\ & = 56.79 \end{aligned}$$

$$\begin{aligned} & (3.2)^2 \times \underline{(1.6 - 1.4 + 8.3)} \\ & = (3.2)^2 \times \underline{(0.2 + 8.3)} \\ & = \underline{(3.2)^2} \times 8.5 \\ & = \underline{10.24 \times 8.5} \\ & = 87.04 \end{aligned}$$

$$\begin{aligned} & \underline{(5.2 + 6.6 - 9.3)^2} \times 3.8 \\ & = \underline{(11.8 - 9.3)^2} \times 3.8 \\ & = \underline{(2.5)^2} \times 3.8 \\ & = \underline{6.25 \times 3.8} \\ & = 23.75 \end{aligned}$$

$$\begin{aligned} & 3.8 \times \left(9.5 + \underline{(2.5)^2} - 2.4 \right) \\ & = 3.8 \times \underline{(9.5 + 6.25 - 2.4)} \\ & = 3.8 \times \underline{(15.75 - 2.4)} \\ & = \underline{3.8 \times 13.35} \\ & = 50.73 \end{aligned}$$

Order of Operations with Decimals (B)

Name: _____

Date: _____

Simplify 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: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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

Order of Operations with Decimals (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(8.4)^2 - 3.1 \times (2.5 + 3.5)$$

$$(1.2 + 1.4) \times (3.5)^2 - 9.6$$

$$(5.3 + 7.2 - 7.6)^2 \div 9.8$$

$$(2.5)^2 + 2.5 \times (9.9 - 3.5)$$

$$((1.5)^2 + 8.3) \times 6.4 - 7.9$$

$$(9.6)^2 + 2.5 \times (9.4 - 7.6)$$

$$((2.5)^2 + 3.2) \times 4.6 \div 1.4$$

$$(5.2)^2 - 1.7 \times (1.2 + 5.7)$$

Order of Operations with Decimals (C) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned}(8.4)^2 - 3.1 \times (2.5 + 3.5) \\ &= (8.4)^2 - 3.1 \times 6 \\ &= 70.56 - 3.1 \times 6 \\ &= 70.56 - 18.6 \\ &= 51.96\end{aligned}$$

$$\begin{aligned}(1.2 + 1.4) \times (3.5)^2 - 9.6 \\ &= 2.6 \times (3.5)^2 - 9.6 \\ &= 2.6 \times 12.25 - 9.6 \\ &= 31.85 - 9.6 \\ &= 22.25\end{aligned}$$

$$\begin{aligned}(5.3 + 7.2 - 7.6)^2 \div 9.8 \\ &= (12.5 - 7.6)^2 \div 9.8 \\ &= (4.9)^2 \div 9.8 \\ &= 24.01 \div 9.8 \\ &= 2.45\end{aligned}$$

$$\begin{aligned}(2.5)^2 + 2.5 \times (9.9 - 3.5) \\ &= (2.5)^2 + 2.5 \times 6.4 \\ &= 6.25 + 2.5 \times 6.4 \\ &= 6.25 + 16 \\ &= 22.25\end{aligned}$$

$$\begin{aligned}((1.5)^2 + 8.3) \times 6.4 - 7.9 \\ &= (2.25 + 8.3) \times 6.4 - 7.9 \\ &= 10.55 \times 6.4 - 7.9 \\ &= 67.52 - 7.9 \\ &= 59.62\end{aligned}$$

$$\begin{aligned}(9.6)^2 + 2.5 \times (9.4 - 7.6) \\ &= (9.6)^2 + 2.5 \times 1.8 \\ &= 92.16 + 2.5 \times 1.8 \\ &= 92.16 + 4.5 \\ &= 96.66\end{aligned}$$

$$\begin{aligned}((2.5)^2 + 3.2) \times 4.6 \div 1.4 \\ &= (6.25 + 3.2) \times 4.6 \div 1.4 \\ &= 9.45 \times 4.6 \div 1.4 \\ &= 43.47 \div 1.4 \\ &= 31.05\end{aligned}$$

$$\begin{aligned}(5.2)^2 - 1.7 \times (1.2 + 5.7) \\ &= (5.2)^2 - 1.7 \times 6.9 \\ &= 27.04 - 1.7 \times 6.9 \\ &= 27.04 - 11.73 \\ &= 15.31\end{aligned}$$

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.

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

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

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

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

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

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

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

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

Order of Operations with Decimals (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$5.6 \times ((3.5)^2 - 9.1 + 6.4)$$

$$1.25 - 2.1 \times ((1.6)^2 \div 6.4)$$

$$5.5 \times (7.8 + 4.8 - (2.6)^2)$$

$$(2.8 - 2.8) \times 3.75 + (4.5)^2$$

$$(6.5)^2 \times (2.5 + 7.1 - 7.8)$$

$$(7.2)^2 - 4.9 \times (5.1 + 3.1)$$

$$((2.7)^2 \div 8.1) \times 3.2 + 8.7$$

$$(3.9)^2 \div (6.5 - 5.2) \times 4.8$$

Order of Operations with Decimals (E) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 5.6 \times ((3.5)^2 - 9.1 + 6.4) \\ &= 5.6 \times (12.25 - 9.1 + 6.4) \\ &= 5.6 \times (3.15 + 6.4) \\ &= 5.6 \times 9.55 \\ &= 53.48 \end{aligned}$$

$$\begin{aligned} & 1.25 - 2.1 \times ((1.6)^2 \div 6.4) \\ &= 1.25 - 2.1 \times (2.56 \div 6.4) \\ &= 1.25 - 2.1 \times 0.4 \\ &= 1.25 - 0.84 \\ &= 0.41 \end{aligned}$$

$$\begin{aligned} & 5.5 \times (7.8 + 4.8 - (2.6)^2) \\ &= 5.5 \times (7.8 + 4.8 - 6.76) \\ &= 5.5 \times (12.6 - 6.76) \\ &= 5.5 \times 5.84 \\ &= 32.12 \end{aligned}$$

$$\begin{aligned} & (2.8 - 2.8) \times 3.75 + (4.5)^2 \\ &= 0 \times 3.75 + (4.5)^2 \\ &= 0 \times 3.75 + 20.25 \\ &= 0 + 20.25 \\ &= 20.25 \end{aligned}$$

$$\begin{aligned} & (6.5)^2 \times (2.5 + 7.1 - 7.8) \\ &= (6.5)^2 \times (9.6 - 7.8) \\ &= (6.5)^2 \times 1.8 \\ &= 42.25 \times 1.8 \\ &= 76.05 \end{aligned}$$

$$\begin{aligned} & (7.2)^2 - 4.9 \times (5.1 + 3.1) \\ &= (7.2)^2 - 4.9 \times 8.2 \\ &= 51.84 - 4.9 \times 8.2 \\ &= 51.84 - 40.18 \\ &= 11.66 \end{aligned}$$

$$\begin{aligned} & ((2.7)^2 \div 8.1) \times 3.2 + 8.7 \\ &= (7.29 \div 8.1) \times 3.2 + 8.7 \\ &= 0.9 \times 3.2 + 8.7 \\ &= 2.88 + 8.7 \\ &= 11.58 \end{aligned}$$

$$\begin{aligned} & (3.9)^2 \div (6.5 - 5.2) \times 4.8 \\ &= (3.9)^2 \div 1.3 \times 4.8 \\ &= 15.21 \div 1.3 \times 4.8 \\ &= 11.7 \times 4.8 \\ &= 56.16 \end{aligned}$$

Order of Operations with Decimals (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$9.7 - (1.8)^2 \div (2.3 + 6.7)$$

$$(8.7 - (1.6)^2) \times 1.5 + 4.7$$

$$(1.7)^2 + 9.7 \times (6.5 - 3.1)$$

$$(5.4 \times 4.4 - (2.4)^2) \div 1.6$$

$$(2.9 - (1.4)^2) \div 4.7 \times 2.6$$

$$((1.2)^2 + 2.9 - 2.4) \times 5.5$$

$$1.8 \div 1.2 \times (5.3 + 2.5)^2$$

$$(9.7 - 8.9) \times 1.3 + (4.5)^2$$

Order of Operations with Decimals (F) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 9.7 - (1.8)^2 \div (2.3 + 6.7) \\ &= 9.7 - (1.8)^2 \div 9 \\ &= 9.7 - 3.24 \div 9 \\ &= 9.7 - 0.36 \\ &= 9.34 \end{aligned}$$

$$\begin{aligned} & (8.7 - (1.6)^2) \times 1.5 + 4.7 \\ &= (8.7 - 2.56) \times 1.5 + 4.7 \\ &= 6.14 \times 1.5 + 4.7 \\ &= 9.21 + 4.7 \\ &= 13.91 \end{aligned}$$

$$\begin{aligned} & (1.7)^2 + 9.7 \times (6.5 - 3.1) \\ &= (1.7)^2 + 9.7 \times 3.4 \\ &= 2.89 + 9.7 \times 3.4 \\ &= 2.89 + 32.98 \\ &= 35.87 \end{aligned}$$

$$\begin{aligned} & (5.4 \times 4.4 - (2.4)^2) \div 1.6 \\ &= (5.4 \times 4.4 - 5.76) \div 1.6 \\ &= (23.76 - 5.76) \div 1.6 \\ &= 18 \div 1.6 \\ &= 11.25 \end{aligned}$$

$$\begin{aligned} & (2.9 - (1.4)^2) \div 4.7 \times 2.6 \\ &= (2.9 - 1.96) \div 4.7 \times 2.6 \\ &= 0.94 \div 4.7 \times 2.6 \\ &= 0.2 \times 2.6 \\ &= 0.52 \end{aligned}$$

$$\begin{aligned} & ((1.2)^2 + 2.9 - 2.4) \times 5.5 \\ &= (1.44 + 2.9 - 2.4) \times 5.5 \\ &= (4.34 - 2.4) \times 5.5 \\ &= 1.94 \times 5.5 \\ &= 10.67 \end{aligned}$$

$$\begin{aligned} & 1.8 \div 1.2 \times (5.3 + 2.5)^2 \\ &= 1.8 \div 1.2 \times (7.8)^2 \\ &= 1.8 \div 1.2 \times 60.84 \\ &= 1.5 \times 60.84 \\ &= 91.26 \end{aligned}$$

$$\begin{aligned} & (9.7 - 8.9) \times 1.3 + (4.5)^2 \\ &= 0.8 \times 1.3 + (4.5)^2 \\ &= 0.8 \times 1.3 + 20.25 \\ &= 1.04 + 20.25 \\ &= 21.29 \end{aligned}$$

Order of Operations with Decimals (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(4.7 - 1.3) \times 3.4 + (6.1)^2$$

$$5.5 \div (3.9 - 2.9)^2 \times 1.3$$

$$(1.7 \div 6.8 + (4.3)^2) \times 2.5$$

$$5.2 + (5.4)^2 \div (2.2 - 1.3)$$

$$(6.1 + 5.8 - 6.9) \times (1.4)^2$$

$$3.5 \times (7.7 - 5.1 + (1.8)^2)$$

$$(9.3 \times 4.8 + (7.4)^2) \div 1.4$$

$$(7.2 + 4.7) \times 2.9 - (4.8)^2$$

Order of Operations with Decimals (G) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (4.7 - 1.3) \times 3.4 + (6.1)^2 \\ &= 3.4 \times 3.4 + (6.1)^2 \\ &= 3.4 \times 3.4 + 37.21 \\ &= 11.56 + 37.21 \\ &= 48.77 \end{aligned}$$

$$\begin{aligned} & 5.5 \div (3.9 - 2.9)^2 \times 1.3 \\ &= 5.5 \div 1^2 \times 1.3 \\ &= 5.5 \div 1 \times 1.3 \\ &= 5.5 \times 1.3 \\ &= 7.15 \end{aligned}$$

$$\begin{aligned} & (1.7 \div 6.8 + (4.3)^2) \times 2.5 \\ &= (1.7 \div 6.8 + 18.49) \times 2.5 \\ &= (0.25 + 18.49) \times 2.5 \\ &= 18.74 \times 2.5 \\ &= 46.85 \end{aligned}$$

$$\begin{aligned} & 5.2 + (5.4)^2 \div (2.2 - 1.3) \\ &= 5.2 + (5.4)^2 \div 0.9 \\ &= 5.2 + 29.16 \div 0.9 \\ &= 5.2 + 32.4 \\ &= 37.6 \end{aligned}$$

$$\begin{aligned} & (6.1 + 5.8 - 6.9) \times (1.4)^2 \\ &= (11.9 - 6.9) \times (1.4)^2 \\ &= 5 \times (1.4)^2 \\ &= 5 \times 1.96 \\ &= 9.8 \end{aligned}$$

$$\begin{aligned} & 3.5 \times (7.7 - 5.1 + (1.8)^2) \\ &= 3.5 \times (7.7 - 5.1 + 3.24) \\ &= 3.5 \times (2.6 + 3.24) \\ &= 3.5 \times 5.84 \\ &= 20.44 \end{aligned}$$

$$\begin{aligned} & (9.3 \times 4.8 + (7.4)^2) \div 1.4 \\ &= (9.3 \times 4.8 + 54.76) \div 1.4 \\ &= (44.64 + 54.76) \div 1.4 \\ &= 99.4 \div 1.4 \\ &= 71 \end{aligned}$$

$$\begin{aligned} & (7.2 + 4.7) \times 2.9 - (4.8)^2 \\ &= 11.9 \times 2.9 - (4.8)^2 \\ &= 11.9 \times 2.9 - 23.04 \\ &= 34.51 - 23.04 \\ &= 11.47 \end{aligned}$$

Order of Operations with Decimals (H)

Name: _____

Date: _____

Simplify 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: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

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

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

Order of Operations with Decimals (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$6.4 \times (3.3 + (1.5)^2 - 5.3)$$

$$1.8 \times ((6.5)^2 - 7.9 + 4.6)$$

$$(7.2 + 8.4 - 7.6) \times (3.2)^2$$

$$(4.9 + 4.7) \times 1.2 - (2.4)^2$$

$$(3.3)^2 + 2.8 \times (5.4 - 5.2)$$

$$(9.8 - 7.8) \div 2.5 \times (8.5)^2$$

$$(2.2)^2 \times (9.7 - 8.9 + 1.7)$$

$$(2.6 - 2.2)^2 \div 3.2 + 2.7$$

Order of Operations with Decimals (I) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 6.4 \times (3.3 + \underline{(1.5)^2} - 5.3) \\ & = 6.4 \times (\underline{3.3 + 2.25} - 5.3) \\ & = 6.4 \times (\underline{5.55 - 5.3}) \\ & = \underline{6.4 \times 0.25} \\ & = 1.6 \end{aligned}$$

$$\begin{aligned} & 1.8 \times (\underline{(6.5)^2} - 7.9 + 4.6) \\ & = 1.8 \times (\underline{42.25 - 7.9} + 4.6) \\ & = 1.8 \times (\underline{34.35 + 4.6}) \\ & = \underline{1.8 \times 38.95} \\ & = 70.11 \end{aligned}$$

$$\begin{aligned} & (\underline{7.2 + 8.4} - 7.6) \times (3.2)^2 \\ & = (\underline{15.6 - 7.6}) \times (3.2)^2 \\ & = 8 \times \underline{(3.2)^2} \\ & = \underline{8 \times 10.24} \\ & = 81.92 \end{aligned}$$

$$\begin{aligned} & (\underline{4.9 + 4.7}) \times 1.2 - (2.4)^2 \\ & = 9.6 \times 1.2 - \underline{(2.4)^2} \\ & = \underline{9.6 \times 1.2} - 5.76 \\ & = \underline{11.52 - 5.76} \\ & = 5.76 \end{aligned}$$

$$\begin{aligned} & (3.3)^2 + 2.8 \times (\underline{5.4 - 5.2}) \\ & = \underline{(3.3)^2} + 2.8 \times 0.2 \\ & = 10.89 + \underline{2.8 \times 0.2} \\ & = \underline{10.89 + 0.56} \\ & = 11.45 \end{aligned}$$

$$\begin{aligned} & (\underline{9.8 - 7.8}) \div 2.5 \times (8.5)^2 \\ & = 2 \div 2.5 \times \underline{(8.5)^2} \\ & = \underline{2 \div 2.5} \times 72.25 \\ & = \underline{0.8 \times 72.25} \\ & = 57.8 \end{aligned}$$

$$\begin{aligned} & (2.2)^2 \times (\underline{9.7 - 8.9} + 1.7) \\ & = (2.2)^2 \times (\underline{0.8 + 1.7}) \\ & = \underline{(2.2)^2} \times 2.5 \\ & = \underline{4.84 \times 2.5} \\ & = 12.1 \end{aligned}$$

$$\begin{aligned} & (\underline{2.6 - 2.2})^2 \div 3.2 + 2.7 \\ & = \underline{(0.4)^2} \div 3.2 + 2.7 \\ & = \underline{0.16 \div 3.2} + 2.7 \\ & = \underline{0.05 + 2.7} \\ & = 2.75 \end{aligned}$$

Order of Operations with Decimals (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$1.8 \times ((1.5)^2 + 5.8 - 2.2)$$

$$1.3 - 7.2 \div (3.8 + (1.4)^2)$$

$$(4.5 + 8.2 - 9.8)^2 \div 2.9$$

$$(5.3 + 4.6 - 3.3)^2 \div 1.2$$

$$(1.8)^2 \times (7.1 + 6.2 - 5.3)$$

$$8.2 \times ((2.5)^2 - 2.6 + 4.9)$$

$$6.5 \div (4.7 + 1.8) \times (8.7)^2$$

$$(2.5)^2 \times (4.5 + 2.9 - 6.4)$$

Order of Operations with Decimals (J) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 1.8 \times ((1.5)^2 + 5.8 - 2.2) \\ &= 1.8 \times (2.25 + 5.8 - 2.2) \\ &= 1.8 \times (8.05 - 2.2) \\ &= 1.8 \times 5.85 \\ &= 10.53 \end{aligned}$$

$$\begin{aligned} & 1.3 - 7.2 \div (3.8 + (1.4)^2) \\ &= 1.3 - 7.2 \div (3.8 + 1.96) \\ &= 1.3 - 7.2 \div 5.76 \\ &= 1.3 - 1.25 \\ &= 0.05 \end{aligned}$$

$$\begin{aligned} & (4.5 + 8.2 - 9.8)^2 \div 2.9 \\ &= (12.7 - 9.8)^2 \div 2.9 \\ &= (2.9)^2 \div 2.9 \\ &= 8.41 \div 2.9 \\ &= 2.9 \end{aligned}$$

$$\begin{aligned} & (5.3 + 4.6 - 3.3)^2 \div 1.2 \\ &= (9.9 - 3.3)^2 \div 1.2 \\ &= (6.6)^2 \div 1.2 \\ &= 43.56 \div 1.2 \\ &= 36.3 \end{aligned}$$

$$\begin{aligned} & (1.8)^2 \times (7.1 + 6.2 - 5.3) \\ &= (1.8)^2 \times (13.3 - 5.3) \\ &= (1.8)^2 \times 8 \\ &= 3.24 \times 8 \\ &= 25.92 \end{aligned}$$

$$\begin{aligned} & 8.2 \times ((2.5)^2 - 2.6 + 4.9) \\ &= 8.2 \times (6.25 - 2.6 + 4.9) \\ &= 8.2 \times (3.65 + 4.9) \\ &= 8.2 \times 8.55 \\ &= 70.11 \end{aligned}$$

$$\begin{aligned} & 6.5 \div (4.7 + 1.8) \times (8.7)^2 \\ &= 6.5 \div 6.5 \times (8.7)^2 \\ &= 6.5 \div 6.5 \times 75.69 \\ &= 1 \times 75.69 \\ &= 75.69 \end{aligned}$$

$$\begin{aligned} & (2.5)^2 \times (4.5 + 2.9 - 6.4) \\ &= (2.5)^2 \times (7.4 - 6.4) \\ &= (2.5)^2 \times 1 \\ &= 6.25 \times 1 \\ &= 6.25 \end{aligned}$$