

Order of Operations with Decimals (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(5.6 \times 1.5)^2 \div 9.8 + 2.4 - 6.8 + 7.2$$

$$(6.1 + (9.2)^2) \times ((0.5)^2 - 0.25) \div 4.1$$

$$4.4 + (8.5)^2 - 2.1 \times (5.4 \div 2.7)^2$$

$$(6.4 \times 1.5)^2 \div 2.4 + 0.2 - (5.3)^2$$

$$((9.5)^2 \div 2.5) \times (4.5 + 4.6 - 3.6 - 2.8)$$

$$((2.8)^2 + (6.6)^2 - 9.2) \times (2.1 \div 1.2)$$

Order of Operations with Decimals (A) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (5.6 \times 1.5)^2 \div 9.8 + 2.4 - 6.8 + 7.2 \\ &= (8.4)^2 \div 9.8 + 2.4 - 6.8 + 7.2 \\ &= 70.56 \div 9.8 + 2.4 - 6.8 + 7.2 \\ &= 7.2 + 2.4 - 6.8 + 7.2 \\ &= 9.6 - 6.8 + 7.2 \\ &= 2.8 + 7.2 \\ &= 10 \end{aligned}$$

$$\begin{aligned} & (6.1 + (9.2)^2) \times ((0.5)^2 - 0.25) \div 4.1 \\ &= (6.1 + 84.64) \times ((0.5)^2 - 0.25) \div 4.1 \\ &= 90.74 \times ((0.5)^2 - 0.25) \div 4.1 \\ &= 90.74 \times (0.25 - 0.25) \div 4.1 \\ &= 90.74 \times 0 \div 4.1 \\ &= 0 \div 4.1 \\ &= 0 \end{aligned}$$

$$\begin{aligned} & 4.4 + (8.5)^2 - 2.1 \times (5.4 \div 2.7)^2 \\ &= 4.4 + (8.5)^2 - 2.1 \times 2^2 \\ &= 4.4 + 72.25 - 2.1 \times 2^2 \\ &= 4.4 + 72.25 - 2.1 \times 4 \\ &= 4.4 + 72.25 - 8.4 \\ &= 76.65 - 8.4 \\ &= 68.25 \end{aligned}$$

$$\begin{aligned} & (6.4 \times 1.5)^2 \div 2.4 + 0.2 - (5.3)^2 \\ &= (9.6)^2 \div 2.4 + 0.2 - (5.3)^2 \\ &= 92.16 \div 2.4 + 0.2 - (5.3)^2 \\ &= 92.16 \div 2.4 + 0.2 - 28.09 \\ &= 38.4 + 0.2 - 28.09 \\ &= 38.6 - 28.09 \\ &= 10.51 \end{aligned}$$

$$\begin{aligned} & ((9.5)^2 \div 2.5) \times (4.5 + 4.6 - 3.6 - 2.8) \\ &= (90.25 \div 2.5) \times (4.5 + 4.6 - 3.6 - 2.8) \\ &= 36.1 \times (4.5 + 4.6 - 3.6 - 2.8) \\ &= 36.1 \times (9.1 - 3.6 - 2.8) \\ &= 36.1 \times (5.5 - 2.8) \\ &= 36.1 \times 2.7 \\ &= 97.47 \end{aligned}$$

$$\begin{aligned} & ((2.8)^2 + (6.6)^2 - 9.2) \times (2.1 \div 1.2) \\ &= (7.84 + (6.6)^2 - 9.2) \times (2.1 \div 1.2) \\ &= (7.84 + 43.56 - 9.2) \times (2.1 \div 1.2) \\ &= (51.4 - 9.2) \times (2.1 \div 1.2) \\ &= 42.2 \times (2.1 \div 1.2) \\ &= 42.2 \times 1.75 \\ &= 73.85 \end{aligned}$$

Order of Operations with Decimals (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations with Decimals (B) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations with Decimals (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(8.7 \div 2.9)^2 \times 2.5 - 7.3 + 7.7 - 5.7$$

$$(3.1)^2 + 4.7 \times 1.9 \div (9.3 - 4.6) \times 6.9$$

$$(5.6)^2 \times ((6.4 + 6.6 - 2.8) \div 6.8)^2$$

$$(6.6 + (5.3)^2 - (1.9)^2) \div (1.4 \times 0.6)$$

$$(7.8 \div 0.75) \times 0.8 - (1.3)^2 + (6.4)^2$$

$$(4.5)^2 \div (5.8 - 4.3) \times 3.8 + (0.2)^2$$

Order of Operations with Decimals (C) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (8.7 \div 2.9)^2 \times 2.5 - 7.3 + 7.7 - 5.7 \\ &= 3^2 \times 2.5 - 7.3 + 7.7 - 5.7 \\ &= 9 \times 2.5 - 7.3 + 7.7 - 5.7 \\ &= 22.5 - 7.3 + 7.7 - 5.7 \\ &= 15.2 + 7.7 - 5.7 \\ &= 22.9 - 5.7 \\ &= 17.2 \end{aligned}$$

$$\begin{aligned} & (3.1)^2 + 4.7 \times 1.9 \div (9.3 - 4.6) \times 6.9 \\ &= (3.1)^2 + 4.7 \times 1.9 \div 4.7 \times 6.9 \\ &= 9.61 + 4.7 \times 1.9 \div 4.7 \times 6.9 \\ &= 9.61 + 8.93 \div 4.7 \times 6.9 \\ &= 9.61 + 1.9 \times 6.9 \\ &= 9.61 + 13.11 \\ &= 22.72 \end{aligned}$$

$$\begin{aligned} & (5.6)^2 \times ((6.4 + 6.6 - 2.8) \div 6.8)^2 \\ &= (5.6)^2 \times ((13 - 2.8) \div 6.8)^2 \\ &= (5.6)^2 \times (10.2 \div 6.8)^2 \\ &= (5.6)^2 \times (1.5)^2 \\ &= 31.36 \times (1.5)^2 \\ &= 31.36 \times 2.25 \\ &= 70.56 \end{aligned}$$

$$\begin{aligned} & (6.6 + (5.3)^2 - (1.9)^2) \div (1.4 \times 0.6) \\ &= (6.6 + 28.09 - (1.9)^2) \div (1.4 \times 0.6) \\ &= (6.6 + 28.09 - 3.61) \div (1.4 \times 0.6) \\ &= (34.69 - 3.61) \div (1.4 \times 0.6) \\ &= 31.08 \div (1.4 \times 0.6) \\ &= 31.08 \div 0.84 \\ &= 37 \end{aligned}$$

$$\begin{aligned} & (7.8 \div 0.75) \times 0.8 - (1.3)^2 + (6.4)^2 \\ &= 10.4 \times 0.8 - (1.3)^2 + (6.4)^2 \\ &= 10.4 \times 0.8 - 1.69 + (6.4)^2 \\ &= 10.4 \times 0.8 - 1.69 + 40.96 \\ &= 8.32 - 1.69 + 40.96 \\ &= 6.63 + 40.96 \\ &= 47.59 \end{aligned}$$

$$\begin{aligned} & (4.5)^2 \div (5.8 - 4.3) \times 3.8 + (0.2)^2 \\ &= (4.5)^2 \div 1.5 \times 3.8 + (0.2)^2 \\ &= 20.25 \div 1.5 \times 3.8 + (0.2)^2 \\ &= 20.25 \div 1.5 \times 3.8 + 0.04 \\ &= 13.5 \times 3.8 + 0.04 \\ &= 51.3 + 0.04 \\ &= 51.34 \end{aligned}$$

Order of Operations with Decimals (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(4.5)^2 - 9.6 + 1.4 \times (1.6 \div (2.2 - 1.8))$$

$$((5.3 + 3.3) \times 5.4) \div (1.5)^2 - 1.4 - 4.3$$

$$8.8 - 4.2 \div (5.6 + 4.9) \times 6.3 + (7.7)^2$$

$$(2.4 \div 1.5) \times 9.8 + (5.7)^2 - (2.7)^2$$

$$(2.2 \times (2.1 + 2.6 - 4.7)^3) \div (3.6 \div 2.5)$$

$$(7.2 \div (9.2 + 2.1 - 4.1))^2 \times (6.7)^2$$

Order of Operations with Decimals (D) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned}(4.5)^2 - 9.6 + 1.4 \times (1.6 \div (2.2 - 1.8)) \\ &= (4.5)^2 - 9.6 + 1.4 \times (1.6 \div 0.4) \\ &= (4.5)^2 - 9.6 + 1.4 \times 4 \\ &= 20.25 - 9.6 + 1.4 \times 4 \\ &= 20.25 - 9.6 + 5.6 \\ &= 10.65 + 5.6 \\ &= 16.25\end{aligned}$$

$$\begin{aligned}((5.3 + 3.3) \times 5.4) \div (1.5)^2 - 1.4 - 4.3 \\ &= (8.6 \times 5.4) \div (1.5)^2 - 1.4 - 4.3 \\ &= 46.44 \div (1.5)^2 - 1.4 - 4.3 \\ &= 46.44 \div 2.25 - 1.4 - 4.3 \\ &= 20.64 - 1.4 - 4.3 \\ &= 19.24 - 4.3 \\ &= 14.94\end{aligned}$$

$$\begin{aligned}8.8 - 4.2 \div (5.6 + 4.9) \times 6.3 + (7.7)^2 \\ &= 8.8 - 4.2 \div 10.5 \times 6.3 + (7.7)^2 \\ &= 8.8 - 4.2 \div 10.5 \times 6.3 + 59.29 \\ &= 8.8 - 0.4 \times 6.3 + 59.29 \\ &= 8.8 - 2.52 + 59.29 \\ &= 6.28 + 59.29 \\ &= 65.57\end{aligned}$$

$$\begin{aligned}(2.4 \div 1.5) \times 9.8 + (5.7)^2 - (2.7)^2 \\ &= 1.6 \times 9.8 + (5.7)^2 - (2.7)^2 \\ &= 1.6 \times 9.8 + 32.49 - (2.7)^2 \\ &= 1.6 \times 9.8 + 32.49 - 7.29 \\ &= 15.68 + 32.49 - 7.29 \\ &= 48.17 - 7.29 \\ &= 40.88\end{aligned}$$

$$\begin{aligned}(2.2 \times (2.1 + 2.6 - 4.7)^3) \div (3.6 \div 2.5) \\ &= (2.2 \times (4.7 - 4.7)^3) \div (3.6 \div 2.5) \\ &= (2.2 \times 0^3) \div (3.6 \div 2.5) \\ &= (2.2 \times 0) \div (3.6 \div 2.5) \\ &= 0 \div (3.6 \div 2.5) \\ &= 0 \div 1.44 \\ &= 0\end{aligned}$$

$$\begin{aligned}(7.2 \div (9.2 + 2.1 - 4.1))^2 \times (6.7)^2 \\ &= (7.2 \div (11.3 - 4.1))^2 \times (6.7)^2 \\ &= (7.2 \div 7.2)^2 \times (6.7)^2 \\ &= 1^2 \times (6.7)^2 \\ &= 1 \times (6.7)^2 \\ &= 1 \times 44.89 \\ &= 44.89\end{aligned}$$

Order of Operations with Decimals (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(2.6 \times 6.9) \div 0.25 + (3.7)^2 - (1.7)^2$$

$$0.25 \times ((3.8 + 2.4)^2 \div (4.6 - 1.5)^2)$$

$$((8.2 - 1.2) \times 9.4) \div 2.5 + (2.8)^2 - 3.9$$

$$((4.5 + 2.1) \div 3.75) \times (3.7 - 1.4 + 5.2)^2$$

$$(9.2)^2 - (2.5)^2 \times (6.2 + 5.2) \div 7.5$$

$$((1.6)^2 \times (8.7 + 9.3)) \div 1.8 - 3.7 - 1.9$$

Order of Operations with Decimals (E) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (2.6 \times 6.9) \div 0.25 + (3.7)^2 - (1.7)^2 \\ &= 17.94 \div 0.25 + (3.7)^2 - (1.7)^2 \\ &= 17.94 \div 0.25 + 13.69 - (1.7)^2 \\ &= \underline{17.94 \div 0.25} + 13.69 - 2.89 \\ &= \underline{71.76 + 13.69} - 2.89 \\ &= \underline{85.45 - 2.89} \\ &= 82.56 \end{aligned}$$

$$\begin{aligned} & 0.25 \times \left((3.8 + 2.4)^2 \div (4.6 - 1.5)^2 \right) \\ &= 0.25 \times \left((6.2)^2 \div (4.6 - 1.5)^2 \right) \\ &= 0.25 \times \left((6.2)^2 \div (3.1)^2 \right) \\ &= 0.25 \times \left(38.44 \div (3.1)^2 \right) \\ &= 0.25 \times (38.44 \div 9.61) \\ &= \underline{0.25 \times 4} \\ &= 1 \end{aligned}$$

$$\begin{aligned} & ((8.2 - 1.2) \times 9.4) \div 2.5 + (2.8)^2 - 3.9 \\ &= (7 \times 9.4) \div 2.5 + (2.8)^2 - 3.9 \\ &= 65.8 \div 2.5 + (2.8)^2 - 3.9 \\ &= \underline{65.8 \div 2.5} + 7.84 - 3.9 \\ &= \underline{26.32 + 7.84} - 3.9 \\ &= \underline{34.16 - 3.9} \\ &= 30.26 \end{aligned}$$

$$\begin{aligned} & ((4.5 + 2.1) \div 3.75) \times (3.7 - 1.4 + 5.2)^2 \\ &= (6.6 \div 3.75) \times (3.7 - 1.4 + 5.2)^2 \\ &= 1.76 \times (3.7 - 1.4 + 5.2)^2 \\ &= 1.76 \times (2.3 + 5.2)^2 \\ &= 1.76 \times (7.5)^2 \\ &= \underline{1.76 \times 56.25} \\ &= 99 \end{aligned}$$

$$\begin{aligned} & (9.2)^2 - (2.5)^2 \times (6.2 + 5.2) \div 7.5 \\ &= (9.2)^2 - (2.5)^2 \times 11.4 \div 7.5 \\ &= 84.64 - (2.5)^2 \times 11.4 \div 7.5 \\ &= 84.64 - \underline{6.25 \times 11.4} \div 7.5 \\ &= 84.64 - \underline{71.25 \div 7.5} \\ &= \underline{84.64 - 9.5} \\ &= 75.14 \end{aligned}$$

$$\begin{aligned} & ((1.6)^2 \times (8.7 + 9.3)) \div 1.8 - 3.7 - 1.9 \\ &= \left((1.6)^2 \times 18 \right) \div 1.8 - 3.7 - 1.9 \\ &= (2.56 \times 18) \div 1.8 - 3.7 - 1.9 \\ &= \underline{46.08 \div 1.8} - 3.7 - 1.9 \\ &= \underline{25.6 - 3.7} - 1.9 \\ &= \underline{21.9 - 1.9} \\ &= 20 \end{aligned}$$

Order of Operations with Decimals (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(1.7 + 2.3)^3 \div (9.8 - 1.8) \times (1.4 + 3.5)$$

$$(1.7 + 2.4) \times 7.5 \div 2.5 - (3.2)^2 + 1.25$$

$$(9.6)^2 \times ((2.6 - 1.6 + 5.1) \div 6.1)^2$$

$$((1.5)^2 \div 4.5) \times (2.2)^2 + 2.6 - 1.4$$

$$(3.9 \div (6.9 - 5.9)^3) \times (9.2 + 2.7 + 5.6)$$

$$9.1 \times ((8.5 - 6.8 + 2.1) \div (6.9 - 3.1))^3$$

Order of Operations with Decimals (F) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (\underline{1.7 + 2.3})^3 \div (9.8 - 1.8) \times (1.4 + 3.5) \\ & = 4^3 \div (\underline{9.8 - 1.8}) \times (1.4 + 3.5) \\ & = 4^3 \div 8 \times (\underline{1.4 + 3.5}) \\ & = \underline{4^3} \div 8 \times 4.9 \\ & = \underline{64 \div 8} \times 4.9 \\ & = \underline{8 \times 4.9} \\ & = 39.2 \end{aligned}$$

$$\begin{aligned} & (\underline{1.7 + 2.4}) \times 7.5 \div 2.5 - (3.2)^2 + 1.25 \\ & = 4.1 \times 7.5 \div 2.5 - \underline{(3.2)^2} + 1.25 \\ & = \underline{4.1 \times 7.5} \div 2.5 - 10.24 + 1.25 \\ & = \underline{30.75 \div 2.5} - 10.24 + 1.25 \\ & = \underline{12.3 - 10.24} + 1.25 \\ & = \underline{2.06 + 1.25} \\ & = 3.31 \end{aligned}$$

$$\begin{aligned} & (9.6)^2 \times ((\underline{2.6 - 1.6} + 5.1) \div 6.1)^2 \\ & = (9.6)^2 \times ((\underline{1 + 5.1}) \div 6.1)^2 \\ & = (9.6)^2 \times (\underline{6.1 \div 6.1})^2 \\ & = \underline{(9.6)^2} \times 1^2 \\ & = 92.16 \times \underline{1^2} \\ & = \underline{92.16 \times 1} \\ & = 92.16 \end{aligned}$$

$$\begin{aligned} & ((\underline{1.5})^2 \div 4.5) \times (2.2)^2 + 2.6 - 1.4 \\ & = (\underline{2.25 \div 4.5}) \times (2.2)^2 + 2.6 - 1.4 \\ & = 0.5 \times \underline{(2.2)^2} + 2.6 - 1.4 \\ & = \underline{0.5 \times 4.84} + 2.6 - 1.4 \\ & = \underline{2.42 + 2.6} - 1.4 \\ & = \underline{5.02 - 1.4} \\ & = 3.62 \end{aligned}$$

$$\begin{aligned} & (3.9 \div (\underline{6.9 - 5.9})^3) \times (9.2 + 2.7 + 5.6) \\ & = (3.9 \div \underline{1^3}) \times (9.2 + 2.7 + 5.6) \\ & = (\underline{3.9 \div 1}) \times (9.2 + 2.7 + 5.6) \\ & = 3.9 \times (\underline{9.2 + 2.7} + 5.6) \\ & = 3.9 \times (\underline{11.9 + 5.6}) \\ & = \underline{3.9 \times 17.5} \\ & = 68.25 \end{aligned}$$

$$\begin{aligned} & 9.1 \times ((\underline{8.5 - 6.8} + 2.1) \div (6.9 - 3.1))^3 \\ & = 9.1 \times ((\underline{1.7 + 2.1}) \div (6.9 - 3.1))^3 \\ & = 9.1 \times (3.8 \div (\underline{6.9 - 3.1}))^3 \\ & = 9.1 \times (\underline{3.8 \div 3.8})^3 \\ & = 9.1 \times \underline{1^3} \\ & = \underline{9.1 \times 1} \\ & = 9.1 \end{aligned}$$

Order of Operations with Decimals (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$3.3 \times (9.4 - 7.9) \div 1.1 + 7.8 + (3.1)^2$$

$$(7.3 \div (3.3 - 2.3)^3) \times 8.1 + 1.6 - 6.6$$

$$(9.3 - 8.3) \div 2.5 \times 2.2 + (9.2)^2 - 4.1$$

$$9.1 + 4.8 \times ((8.3 - 3.5)^2 \div (5.1 + 7.7))$$

$$((6.3 - 4.7)^2 \div 0.2) \times 4.9 + (0.4)^2$$

$$((8.9 - 7.4)^2 \times 9.2) \div (1.1 + 4.3 + 2.1)$$

Order of Operations with Decimals (G) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 3.3 \times (9.4 - 7.9) \div 1.1 + 7.8 + (3.1)^2 \\ &= 3.3 \times 1.5 \div 1.1 + 7.8 + (3.1)^2 \\ &= 3.3 \times 1.5 \div 1.1 + 7.8 + 9.61 \\ &= 4.95 \div 1.1 + 7.8 + 9.61 \\ &= 4.5 + 7.8 + 9.61 \\ &= 12.3 + 9.61 \\ &= 21.91 \end{aligned}$$

$$\begin{aligned} & (7.3 \div (3.3 - 2.3)^3) \times 8.1 + 1.6 - 6.6 \\ &= (7.3 \div 1^3) \times 8.1 + 1.6 - 6.6 \\ &= (7.3 \div 1) \times 8.1 + 1.6 - 6.6 \\ &= 7.3 \times 8.1 + 1.6 - 6.6 \\ &= 59.13 + 1.6 - 6.6 \\ &= 60.73 - 6.6 \\ &= 54.13 \end{aligned}$$

$$\begin{aligned} & (9.3 - 8.3) \div 2.5 \times 2.2 + (9.2)^2 - 4.1 \\ &= 1 \div 2.5 \times 2.2 + (9.2)^2 - 4.1 \\ &= 1 \div 2.5 \times 2.2 + 84.64 - 4.1 \\ &= 0.4 \times 2.2 + 84.64 - 4.1 \\ &= 0.88 + 84.64 - 4.1 \\ &= 85.52 - 4.1 \\ &= 81.42 \end{aligned}$$

$$\begin{aligned} & 9.1 + 4.8 \times ((8.3 - 3.5)^2 \div (5.1 + 7.7)) \\ &= 9.1 + 4.8 \times ((4.8)^2 \div (5.1 + 7.7)) \\ &= 9.1 + 4.8 \times ((4.8)^2 \div 12.8) \\ &= 9.1 + 4.8 \times (23.04 \div 12.8) \\ &= 9.1 + 4.8 \times 1.8 \\ &= 9.1 + 8.64 \\ &= 17.74 \end{aligned}$$

$$\begin{aligned} & ((6.3 - 4.7)^2 \div 0.2) \times 4.9 + (0.4)^2 \\ &= ((1.6)^2 \div 0.2) \times 4.9 + (0.4)^2 \\ &= (2.56 \div 0.2) \times 4.9 + (0.4)^2 \\ &= 12.8 \times 4.9 + (0.4)^2 \\ &= 12.8 \times 4.9 + 0.16 \\ &= 62.72 + 0.16 \\ &= 62.88 \end{aligned}$$

$$\begin{aligned} & ((8.9 - 7.4)^2 \times 9.2) \div (1.1 + 4.3 + 2.1) \\ &= ((1.5)^2 \times 9.2) \div (1.1 + 4.3 + 2.1) \\ &= (2.25 \times 9.2) \div (1.1 + 4.3 + 2.1) \\ &= 20.7 \div (1.1 + 4.3 + 2.1) \\ &= 20.7 \div (5.4 + 2.1) \\ &= 20.7 \div 7.5 \\ &= 2.76 \end{aligned}$$

Order of Operations with Decimals (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(3.3 \div 6.6) \times 9.1 + 5.2 - 7.6 + (3.1)^2$$

$$((2.4)^2 \div 7.2) \times 9.6 + (7.3)^2 - 1.3$$

$$(4.3)^2 + 3.6 \div 0.4 \times (8.7 - (2.5)^2)$$

$$(7.2 - 5.5) \times 7.1 \div 1.7 + 9.5 - (2.5)^2$$

$$(2.7)^2 - 9.3 \div 6.2 \times ((1.6)^2 + 0.4)$$

$$(4.6)^2 - (4.5)^2 + 8.6 \times (5.4 \div 2.7)$$

Order of Operations with Decimals (H) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (3.3 \div 6.6) \times 9.1 + 5.2 - 7.6 + (3.1)^2 \\ &= 0.5 \times 9.1 + 5.2 - 7.6 + (3.1)^2 \\ &= 0.5 \times 9.1 + 5.2 - 7.6 + 9.61 \\ &= 4.55 + 5.2 - 7.6 + 9.61 \\ &= 9.75 - 7.6 + 9.61 \\ &= 2.15 + 9.61 \\ &= 11.76 \end{aligned}$$

$$\begin{aligned} & ((2.4)^2 \div 7.2) \times 9.6 + (7.3)^2 - 1.3 \\ &= (5.76 \div 7.2) \times 9.6 + (7.3)^2 - 1.3 \\ &= 0.8 \times 9.6 + (7.3)^2 - 1.3 \\ &= 0.8 \times 9.6 + 53.29 - 1.3 \\ &= 7.68 + 53.29 - 1.3 \\ &= 60.97 - 1.3 \\ &= 59.67 \end{aligned}$$

$$\begin{aligned} & (4.3)^2 + 3.6 \div 0.4 \times (8.7 - (2.5)^2) \\ &= (4.3)^2 + 3.6 \div 0.4 \times (8.7 - 6.25) \\ &= (4.3)^2 + 3.6 \div 0.4 \times 2.45 \\ &= 18.49 + 3.6 \div 0.4 \times 2.45 \\ &= 18.49 + 9 \times 2.45 \\ &= 18.49 + 22.05 \\ &= 40.54 \end{aligned}$$

$$\begin{aligned} & (7.2 - 5.5) \times 7.1 \div 1.7 + 9.5 - (2.5)^2 \\ &= 1.7 \times 7.1 \div 1.7 + 9.5 - (2.5)^2 \\ &= 1.7 \times 7.1 \div 1.7 + 9.5 - 6.25 \\ &= 12.07 \div 1.7 + 9.5 - 6.25 \\ &= 7.1 + 9.5 - 6.25 \\ &= 16.6 - 6.25 \\ &= 10.35 \end{aligned}$$

$$\begin{aligned} & (2.7)^2 - 9.3 \div 6.2 \times ((1.6)^2 + 0.4) \\ &= (2.7)^2 - 9.3 \div 6.2 \times (2.56 + 0.4) \\ &= (2.7)^2 - 9.3 \div 6.2 \times 2.96 \\ &= 7.29 - 9.3 \div 6.2 \times 2.96 \\ &= 7.29 - 1.5 \times 2.96 \\ &= 7.29 - 4.44 \\ &= 2.85 \end{aligned}$$

$$\begin{aligned} & (4.6)^2 - (4.5)^2 + 8.6 \times (5.4 \div 2.7) \\ &= (4.6)^2 - (4.5)^2 + 8.6 \times 2 \\ &= 21.16 - (4.5)^2 + 8.6 \times 2 \\ &= 21.16 - 20.25 + 8.6 \times 2 \\ &= 21.16 - 20.25 + 17.2 \\ &= 0.91 + 17.2 \\ &= 18.11 \end{aligned}$$

Order of Operations with Decimals (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(4.2 \div 0.2) \times (0.5)^2 - 0.8 + (7.1)^2$$

$$(5.4 \times 5.7) \div 9.5 + (3.6)^2 - 4.3 + 9.1$$

$$5.7 \times (9.2 + (6.7)^2 - (7.3)^2) \div 0.2$$

$$(8.7 + 3.4 - 1.1) \times ((1.2)^2 \div (5.5 - 1.5))$$

$$(1.8 + 2.4)^2 \times (9.2 - 7.2)^2 \div 1.2$$

$$(8.7 \div (5.3 - 0.5 + 3.9))^2 \times (9.2)^2$$

Order of Operations with Decimals (I) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (\underline{4.2 \div 0.2}) \times (0.5)^2 - 0.8 + (7.1)^2 \\ & = 21 \times \underline{(0.5)^2} - 0.8 + (7.1)^2 \\ & = 21 \times 0.25 - 0.8 + \underline{(7.1)^2} \\ & = \underline{21 \times 0.25} - 0.8 + 50.41 \\ & = \underline{5.25 - 0.8} + 50.41 \\ & = \underline{4.45 + 50.41} \\ & = 54.86 \end{aligned}$$

$$\begin{aligned} & (\underline{5.4 \times 5.7}) \div 9.5 + (3.6)^2 - 4.3 + 9.1 \\ & = 30.78 \div 9.5 + \underline{(3.6)^2} - 4.3 + 9.1 \\ & = \underline{30.78 \div 9.5} + 12.96 - 4.3 + 9.1 \\ & = \underline{3.24 + 12.96} - 4.3 + 9.1 \\ & = \underline{16.2 - 4.3} + 9.1 \\ & = \underline{11.9 + 9.1} \\ & = 21 \end{aligned}$$

$$\begin{aligned} & 5.7 \times (9.2 + \underline{(6.7)^2} - (7.3)^2) \div 0.2 \\ & = 5.7 \times (9.2 + 44.89 - \underline{(7.3)^2}) \div 0.2 \\ & = 5.7 \times (\underline{9.2 + 44.89} - 53.29) \div 0.2 \\ & = 5.7 \times (\underline{54.09 - 53.29}) \div 0.2 \\ & = \underline{5.7 \times 0.8} \div 0.2 \\ & = \underline{4.56 \div 0.2} \\ & = 22.8 \end{aligned}$$

$$\begin{aligned} & (\underline{8.7 + 3.4} - 1.1) \times ((1.2)^2 \div (5.5 - 1.5)) \\ & = (\underline{12.1 - 1.1}) \times ((1.2)^2 \div (5.5 - 1.5)) \\ & = 11 \times ((1.2)^2 \div \underline{(5.5 - 1.5)}) \\ & = 11 \times (\underline{(1.2)^2} \div 4) \\ & = 11 \times (\underline{1.44 \div 4}) \\ & = \underline{11 \times 0.36} \\ & = 3.96 \end{aligned}$$

$$\begin{aligned} & (\underline{1.8 + 2.4})^2 \times (9.2 - 7.2)^2 \div 1.2 \\ & = (4.2)^2 \times \underline{(9.2 - 7.2)^2} \div 1.2 \\ & = \underline{(4.2)^2} \times 2^2 \div 1.2 \\ & = 17.64 \times \underline{2^2} \div 1.2 \\ & = \underline{17.64 \times 4} \div 1.2 \\ & = \underline{70.56 \div 1.2} \\ & = 58.8 \end{aligned}$$

$$\begin{aligned} & (8.7 \div (\underline{5.3 - 0.5} + 3.9))^2 \times (9.2)^2 \\ & = (8.7 \div (\underline{4.8 + 3.9}))^2 \times (9.2)^2 \\ & = (\underline{8.7 \div 8.7})^2 \times (9.2)^2 \\ & = \underline{1^2} \times (9.2)^2 \\ & = 1 \times \underline{(9.2)^2} \\ & = \underline{1 \times 84.64} \\ & = 84.64 \end{aligned}$$

Order of Operations with Decimals (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(6.4)^2 + 1.8 \div (4.7 - 3.5) \times (1.2)^2$$

$$(1.8 \div (0.4)^2) \times 6.4 + 8.3 - (3.3)^2$$

$$(9.6 \div 1.2) \times 3.1 - 7.8 + 6.7 - (2.3)^2$$

$$((0.4)^2 \times 7.5) \div 2.4 + (4.4)^2 - 4.7$$

$$(9.9 \div 2.2) \times 9.5 - 3.75 + 1.25 - (5.2)^2$$

$$((1.3)^2 + (3.3)^2) \times ((6.9 - 2.1) \div 3.2)$$

Order of Operations with Decimals (J) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned}(6.4)^2 + 1.8 \div (4.7 - 3.5) \times (1.2)^2 \\ &= (6.4)^2 + 1.8 \div 1.2 \times (1.2)^2 \\ &= 40.96 + 1.8 \div 1.2 \times (1.2)^2 \\ &= 40.96 + \underline{1.8 \div 1.2} \times 1.44 \\ &= 40.96 + \underline{1.5 \times 1.44} \\ &= \underline{40.96 + 2.16} \\ &= 43.12\end{aligned}$$

$$\begin{aligned}(1.8 \div (0.4)^2) \times 6.4 + 8.3 - (3.3)^2 \\ &= (1.8 \div 0.16) \times 6.4 + 8.3 - (3.3)^2 \\ &= 11.25 \times 6.4 + 8.3 - (3.3)^2 \\ &= \underline{11.25 \times 6.4} + 8.3 - 10.89 \\ &= \underline{72 + 8.3} - 10.89 \\ &= \underline{80.3 - 10.89} \\ &= 69.41\end{aligned}$$

$$\begin{aligned}(\underline{9.6 \div 1.2}) \times 3.1 - 7.8 + 6.7 - (2.3)^2 \\ &= 8 \times 3.1 - 7.8 + 6.7 - (2.3)^2 \\ &= \underline{8 \times 3.1} - 7.8 + 6.7 - 5.29 \\ &= \underline{24.8 - 7.8} + 6.7 - 5.29 \\ &= \underline{17 + 6.7} - 5.29 \\ &= \underline{23.7 - 5.29} \\ &= 18.41\end{aligned}$$

$$\begin{aligned}(\underline{(0.4)^2} \times 7.5) \div 2.4 + (4.4)^2 - 4.7 \\ &= (\underline{0.16 \times 7.5}) \div 2.4 + (4.4)^2 - 4.7 \\ &= 1.2 \div 2.4 + \underline{(4.4)^2} - 4.7 \\ &= \underline{1.2 \div 2.4} + 19.36 - 4.7 \\ &= \underline{0.5 + 19.36} - 4.7 \\ &= \underline{19.86 - 4.7} \\ &= 15.16\end{aligned}$$

$$\begin{aligned}(\underline{9.9 \div 2.2}) \times 9.5 - 3.75 + 1.25 - (5.2)^2 \\ &= 4.5 \times 9.5 - 3.75 + 1.25 - (5.2)^2 \\ &= \underline{4.5 \times 9.5} - 3.75 + 1.25 - 27.04 \\ &= \underline{42.75 - 3.75} + 1.25 - 27.04 \\ &= \underline{39 + 1.25} - 27.04 \\ &= \underline{40.25 - 27.04} \\ &= 13.21\end{aligned}$$

$$\begin{aligned}(\underline{(1.3)^2} + (3.3)^2) \times ((6.9 - 2.1) \div 3.2) \\ &= (1.69 + \underline{(3.3)^2}) \times ((6.9 - 2.1) \div 3.2) \\ &= (\underline{1.69 + 10.89}) \times ((6.9 - 2.1) \div 3.2) \\ &= 12.58 \times ((\underline{6.9 - 2.1}) \div 3.2) \\ &= 12.58 \times (\underline{4.8 \div 3.2}) \\ &= \underline{12.58 \times 1.5} \\ &= 18.87\end{aligned}$$