

Order of Operations with Decimals (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$7.2 \div (6.6 \times 1.1 + (2.2)^2 - 3.1)$$

$$(2.8 \div 1.25) \times (3.9 - 1.2 + 2.8)^2$$

$$(3.2 \times 3.4) \div 1.7 - 1.2 + (8.7)^2$$

$$((3.6)^2 - 8.4 \div 2.8) \times (1.8 + 8.2)$$

$$(7.8 + 3.2) \times (2.1)^2 \div 1.4 - 9.8$$

$$4.6 + 2.4 \times 7.2 \div (2.2 - 1.6)^2$$

$$(3.8 + 7.5 - 9.9)^2 \div 4.9 \times 8.8$$

$$(4.5 - 1.6 \div 1.6) \times 2.8 + (6.5)^2$$

Order of Operations with Decimals (A) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 7.2 \div (6.6 \times 1.1 + \underline{(2.2)^2} - 3.1) \\ & = 7.2 \div (\underline{6.6 \times 1.1} + 4.84 - 3.1) \\ & = 7.2 \div (\underline{7.26 + 4.84} - 3.1) \\ & = 7.2 \div (\underline{12.1 - 3.1}) \\ & = \underline{7.2 \div 9} \\ & = 0.8 \end{aligned}$$

$$\begin{aligned} & (\underline{3.2 \times 3.4}) \div 1.7 - 1.2 + (8.7)^2 \\ & = 10.88 \div 1.7 - 1.2 + \underline{(8.7)^2} \\ & = \underline{10.88 \div 1.7} - 1.2 + 75.69 \\ & = \underline{6.4 - 1.2} + 75.69 \\ & = \underline{5.2 + 75.69} \\ & = 80.89 \end{aligned}$$

$$\begin{aligned} & (\underline{7.8 + 3.2}) \times (2.1)^2 \div 1.4 - 9.8 \\ & = 11 \times \underline{(2.1)^2} \div 1.4 - 9.8 \\ & = \underline{11 \times 4.41} \div 1.4 - 9.8 \\ & = \underline{48.51 \div 1.4} - 9.8 \\ & = \underline{34.65 - 9.8} \\ & = 24.85 \end{aligned}$$

$$\begin{aligned} & (\underline{3.8 + 7.5} - 9.9)^2 \div 4.9 \times 8.8 \\ & = (\underline{11.3 - 9.9})^2 \div 4.9 \times 8.8 \\ & = \underline{(1.4)^2} \div 4.9 \times 8.8 \\ & = \underline{1.96 \div 4.9} \times 8.8 \\ & = \underline{0.4 \times 8.8} \\ & = 3.52 \end{aligned}$$

$$\begin{aligned} & (\underline{2.8 \div 1.25}) \times (3.9 - 1.2 + 2.8)^2 \\ & = 2.24 \times (\underline{3.9 - 1.2} + 2.8)^2 \\ & = 2.24 \times (\underline{2.7 + 2.8})^2 \\ & = 2.24 \times \underline{(5.5)^2} \\ & = \underline{2.24 \times 30.25} \\ & = 67.76 \end{aligned}$$

$$\begin{aligned} & (\underline{(3.6)^2} - 8.4 \div 2.8) \times (1.8 + 8.2) \\ & = (12.96 - \underline{8.4 \div 2.8}) \times (1.8 + 8.2) \\ & = (\underline{12.96 - 3}) \times (1.8 + 8.2) \\ & = 9.96 \times (\underline{1.8 + 8.2}) \\ & = \underline{9.96 \times 10} \\ & = 99.6 \end{aligned}$$

$$\begin{aligned} & 4.6 + 2.4 \times 7.2 \div (\underline{2.2 - 1.6})^2 \\ & = 4.6 + 2.4 \times 7.2 \div \underline{(0.6)^2} \\ & = 4.6 + \underline{2.4 \times 7.2} \div 0.36 \\ & = 4.6 + \underline{17.28 \div 0.36} \\ & = \underline{4.6 + 48} \\ & = 52.6 \end{aligned}$$

$$\begin{aligned} & (4.5 - \underline{1.6 \div 1.6}) \times 2.8 + (6.5)^2 \\ & = (\underline{4.5 - 1}) \times 2.8 + (6.5)^2 \\ & = 3.5 \times 2.8 + \underline{(6.5)^2} \\ & = \underline{3.5 \times 2.8} + 42.25 \\ & = \underline{9.8 + 42.25} \\ & = 52.05 \end{aligned}$$

Order of Operations with Decimals (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$6.8 \div 1.25 \times (5.8 + 2.9 - 7.7)^3$$

$$5.7 \times ((6.2)^2 \div 3.1 - 1.6 + 6.6)$$

$$(2.8 \div 2.8)^3 \times (4.7 - 4.5 + 7.8)$$

$$8.2 \times (2.9 + 3.5 - 9.8 \div (2.8)^2)$$

$$((1.9 + 4.5 - 4.4)^2 \div 2.5) \times 7.6$$

$$4.4 \times ((9.2)^2 \div 4.6 + 7.1 - 8.3)$$

$$((5.4)^2 \div 2.7) \times 7.7 + 1.8 - 8.2$$

$$(2.4 + (5.2)^2 - 8.3 \times 2.6) \div 1.2$$

Order of Operations with Decimals (B) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 6.8 \div 1.25 \times (\underline{5.8 + 2.9} - 7.7)^3 \\ &= 6.8 \div 1.25 \times (\underline{8.7 - 7.7})^3 \\ &= 6.8 \div 1.25 \times \underline{1^3} \\ &= \underline{6.8 \div 1.25} \times 1 \\ &= \underline{5.44 \times 1} \\ &= 5.44 \end{aligned}$$

$$\begin{aligned} & 5.7 \times (\underline{(6.2)^2} \div 3.1 - 1.6 + 6.6) \\ &= 5.7 \times (\underline{38.44 \div 3.1} - 1.6 + 6.6) \\ &= 5.7 \times (\underline{12.4 - 1.6} + 6.6) \\ &= 5.7 \times (\underline{10.8 + 6.6}) \\ &= \underline{5.7 \times 17.4} \\ &= 99.18 \end{aligned}$$

$$\begin{aligned} & (\underline{2.8 \div 2.8})^3 \times (4.7 - 4.5 + 7.8) \\ &= 1^3 \times (\underline{4.7 - 4.5} + 7.8) \\ &= 1^3 \times (\underline{0.2 + 7.8}) \\ &= \underline{1^3} \times 8 \\ &= \underline{1 \times 8} \\ &= 8 \end{aligned}$$

$$\begin{aligned} & 8.2 \times (2.9 + 3.5 - 9.8 \div \underline{(2.8)^2}) \\ &= 8.2 \times (2.9 + 3.5 - \underline{9.8 \div 7.84}) \\ &= 8.2 \times (\underline{2.9 + 3.5} - 1.25) \\ &= 8.2 \times (\underline{6.4 - 1.25}) \\ &= \underline{8.2 \times 5.15} \\ &= 42.23 \end{aligned}$$

$$\begin{aligned} & ((\underline{1.9 + 4.5} - 4.4)^2 \div 2.5) \times 7.6 \\ &= ((\underline{6.4 - 4.4})^2 \div 2.5) \times 7.6 \\ &= (\underline{2^2} \div 2.5) \times 7.6 \\ &= (\underline{4 \div 2.5}) \times 7.6 \\ &= \underline{1.6 \times 7.6} \\ &= 12.16 \end{aligned}$$

$$\begin{aligned} & 4.4 \times (\underline{(9.2)^2} \div 4.6 + 7.1 - 8.3) \\ &= 4.4 \times (\underline{84.64 \div 4.6} + 7.1 - 8.3) \\ &= 4.4 \times (\underline{18.4 + 7.1} - 8.3) \\ &= 4.4 \times (\underline{25.5 - 8.3}) \\ &= \underline{4.4 \times 17.2} \\ &= 75.68 \end{aligned}$$

$$\begin{aligned} & (\underline{(5.4)^2} \div 2.7) \times 7.7 + 1.8 - 8.2 \\ &= (\underline{29.16 \div 2.7}) \times 7.7 + 1.8 - 8.2 \\ &= \underline{10.8 \times 7.7} + 1.8 - 8.2 \\ &= \underline{83.16 + 1.8} - 8.2 \\ &= \underline{84.96 - 8.2} \\ &= 76.76 \end{aligned}$$

$$\begin{aligned} & (2.4 + \underline{(5.2)^2} - 8.3 \times 2.6) \div 1.2 \\ &= (2.4 + 27.04 - \underline{8.3 \times 2.6}) \div 1.2 \\ &= (\underline{2.4 + 27.04} - 21.58) \div 1.2 \\ &= (\underline{29.44 - 21.58}) \div 1.2 \\ &= \underline{7.86 \div 1.2} \\ &= 6.55 \end{aligned}$$

Order of Operations with Decimals (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$2.5 + 2.3 \times (3.6 \div (4.1 - 3.1)^2)$$

$$1.5 \times (6.6 + (6.8)^2) \div (6.7 - 4.7)$$

$$((5.6)^2 \div 2.8) \times 2.8 + 2.7 - 7.8$$

$$4.1 \times ((3.5 + 8.3 - 4.2) \div 3.8)^3$$

$$9.9 \times 1.5 + (3.3)^2 \div (2.9 - 2.3)$$

$$5.3 \times 7.6 + 1.4 \div (7.1 - 6.1)^3$$

$$(4.3 + 9.2 \times 9.7 - (3.3)^2) \div 9.5$$

$$(6.6 - 2.1 + (7.2)^2 \div 9.6) \times 2.2$$

Order of Operations with Decimals (C) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 2.5 + 2.3 \times (3.6 \div (4.1 - 3.1)^2) \\ &= 2.5 + 2.3 \times (3.6 \div \underline{1^2}) \\ &= 2.5 + 2.3 \times (\underline{3.6 \div 1}) \\ &= 2.5 + \underline{2.3 \times 3.6} \\ &= \underline{2.5 + 8.28} \\ &= 10.78 \end{aligned}$$

$$\begin{aligned} & 1.5 \times (6.6 + (6.8)^2) \div (6.7 - 4.7) \\ &= 1.5 \times (\underline{6.6 + 46.24}) \div (6.7 - 4.7) \\ &= 1.5 \times 52.84 \div (\underline{6.7 - 4.7}) \\ &= \underline{1.5 \times 52.84} \div 2 \\ &= \underline{79.26} \div 2 \\ &= 39.63 \end{aligned}$$

$$\begin{aligned} & ((5.6)^2 \div 2.8) \times 2.8 + 2.7 - 7.8 \\ &= (\underline{31.36 \div 2.8}) \times 2.8 + 2.7 - 7.8 \\ &= \underline{11.2 \times 2.8} + 2.7 - 7.8 \\ &= \underline{31.36 + 2.7} - 7.8 \\ &= \underline{34.06 - 7.8} \\ &= 26.26 \end{aligned}$$

$$\begin{aligned} & 4.1 \times ((3.5 + 8.3 - 4.2) \div 3.8)^3 \\ &= 4.1 \times (\underline{(11.8 - 4.2) \div 3.8})^3 \\ &= 4.1 \times (\underline{7.6 \div 3.8})^3 \\ &= 4.1 \times \underline{2^3} \\ &= \underline{4.1 \times 8} \\ &= 32.8 \end{aligned}$$

$$\begin{aligned} & 9.9 \times 1.5 + (3.3)^2 \div (2.9 - 2.3) \\ &= 9.9 \times 1.5 + \underline{(3.3)^2} \div 0.6 \\ &= \underline{9.9 \times 1.5} + 10.89 \div 0.6 \\ &= 14.85 + \underline{10.89 \div 0.6} \\ &= \underline{14.85 + 18.15} \\ &= 33 \end{aligned}$$

$$\begin{aligned} & 5.3 \times 7.6 + 1.4 \div (7.1 - 6.1)^3 \\ &= 5.3 \times 7.6 + 1.4 \div \underline{1^3} \\ &= \underline{5.3 \times 7.6} + 1.4 \div 1 \\ &= 40.28 + \underline{1.4 \div 1} \\ &= \underline{40.28 + 1.4} \\ &= 41.68 \end{aligned}$$

$$\begin{aligned} & (4.3 + 9.2 \times 9.7 - (3.3)^2) \div 9.5 \\ &= (4.3 + \underline{9.2 \times 9.7} - 10.89) \div 9.5 \\ &= (\underline{4.3 + 89.24} - 10.89) \div 9.5 \\ &= (\underline{93.54 - 10.89}) \div 9.5 \\ &= \underline{82.65} \div 9.5 \\ &= 8.7 \end{aligned}$$

$$\begin{aligned} & (6.6 - 2.1 + (7.2)^2 \div 9.6) \times 2.2 \\ &= (6.6 - 2.1 + \underline{51.84 \div 9.6}) \times 2.2 \\ &= (\underline{6.6 - 2.1} + 5.4) \times 2.2 \\ &= (\underline{4.5 + 5.4}) \times 2.2 \\ &= \underline{9.9 \times 2.2} \\ &= 21.78 \end{aligned}$$

Order of Operations with Decimals (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(3.1 - (1.6)^2 + 4.6 \times 1.7) \div 1.1$$

$$((8.4)^2 \div 4.9 - 9.9) \times 8.3 + 7.5$$

$$((9.1)^2 + 2.4 \times 6.6 - 5.4) \div 2.5$$

$$8.4 \div (8.7 - 3.1) \times (4.6)^2 + 2.5$$

$$((7.7)^2 - 2.2 + 8.3) \div 1.3 \times 1.1$$

$$7.9 + 1.9 \div (5.6 - 3.7) \times (2.8)^2$$

$$(9.2 + 2.2 - (6.6)^2 \div 9.9) \times 4.1$$

$$((3.8)^2 - 3.4) \div (1.8 + 7.4) \times 1.9$$

Order of Operations with Decimals (D) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (3.1 - \underline{(1.6)^2} + 4.6 \times 1.7) \div 1.1 \\ &= (3.1 - 2.56 + \underline{4.6 \times 1.7}) \div 1.1 \\ &= (\underline{3.1 - 2.56} + 7.82) \div 1.1 \\ &= (\underline{0.54 + 7.82}) \div 1.1 \\ &= \underline{8.36 \div 1.1} \\ &= 7.6 \end{aligned}$$

$$\begin{aligned} & (\underline{(8.4)^2} \div 4.9 - 9.9) \times 8.3 + 7.5 \\ &= (\underline{70.56 \div 4.9} - 9.9) \times 8.3 + 7.5 \\ &= (\underline{14.4 - 9.9}) \times 8.3 + 7.5 \\ &= \underline{4.5 \times 8.3} + 7.5 \\ &= \underline{37.35 + 7.5} \\ &= 44.85 \end{aligned}$$

$$\begin{aligned} & (\underline{(9.1)^2} + 2.4 \times 6.6 - 5.4) \div 2.5 \\ &= (82.81 + \underline{2.4 \times 6.6} - 5.4) \div 2.5 \\ &= (\underline{82.81 + 15.84} - 5.4) \div 2.5 \\ &= (\underline{98.65 - 5.4}) \div 2.5 \\ &= \underline{93.25 \div 2.5} \\ &= 37.3 \end{aligned}$$

$$\begin{aligned} & 8.4 \div (\underline{8.7 - 3.1}) \times (4.6)^2 + 2.5 \\ &= 8.4 \div 5.6 \times \underline{(4.6)^2} + 2.5 \\ &= \underline{8.4 \div 5.6} \times 21.16 + 2.5 \\ &= \underline{1.5 \times 21.16} + 2.5 \\ &= \underline{31.74 + 2.5} \\ &= 34.24 \end{aligned}$$

$$\begin{aligned} & (\underline{(7.7)^2} - 2.2 + 8.3) \div 1.3 \times 1.1 \\ &= (\underline{59.29 - 2.2} + 8.3) \div 1.3 \times 1.1 \\ &= (\underline{57.09 + 8.3}) \div 1.3 \times 1.1 \\ &= \underline{65.39 \div 1.3} \times 1.1 \\ &= \underline{50.3 \times 1.1} \\ &= 55.33 \end{aligned}$$

$$\begin{aligned} & 7.9 + 1.9 \div (\underline{5.6 - 3.7}) \times (2.8)^2 \\ &= 7.9 + 1.9 \div 1.9 \times \underline{(2.8)^2} \\ &= 7.9 + \underline{1.9 \div 1.9} \times 7.84 \\ &= 7.9 + \underline{1 \times 7.84} \\ &= \underline{7.9 + 7.84} \\ &= 15.74 \end{aligned}$$

$$\begin{aligned} & (9.2 + 2.2 - \underline{(6.6)^2} \div 9.9) \times 4.1 \\ &= (9.2 + 2.2 - \underline{43.56 \div 9.9}) \times 4.1 \\ &= (\underline{9.2 + 2.2} - 4.4) \times 4.1 \\ &= (\underline{11.4 - 4.4}) \times 4.1 \\ &= \underline{7 \times 4.1} \\ &= 28.7 \end{aligned}$$

$$\begin{aligned} & (\underline{(3.8)^2} - 3.4) \div (1.8 + 7.4) \times 1.9 \\ &= (\underline{14.44 - 3.4}) \div (1.8 + 7.4) \times 1.9 \\ &= 11.04 \div (\underline{1.8 + 7.4}) \times 1.9 \\ &= \underline{11.04 \div 9.2} \times 1.9 \\ &= \underline{1.2 \times 1.9} \\ &= 2.28 \end{aligned}$$

Order of Operations with Decimals (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$3.2 \times (4.8 + 2.2 - 6.6 \div 1.1)^2$$

$$((7.9)^2 + 4.5 - 5.5) \div 8.9 \times 1.4$$

$$(3.3 + (2.6)^2 - 6.6 \div 3.75) \times 1.5$$

$$((7.5 + 2.8 - 9.7)^2 \times 6.5) \div 5.2$$

$$((5.1)^2 + 4.3 \times 3.7 - 9.3) \div 1.4$$

$$(3.6 + 3.3 - 2.5)^2 \div 3.2 \times 2.4$$

$$4.8 \div (9.5 - 7.5) \times 5.3 + (3.6)^2$$

$$((2.8)^2 \div 2.8 + 4.7) \times 9.6 - 4.8$$

Order of Operations with Decimals (E) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 3.2 \times (4.8 + 2.2 - \underline{6.6 \div 1.1})^2 \\ &= 3.2 \times (\underline{4.8 + 2.2} - 6)^2 \\ &= 3.2 \times (\underline{7 - 6})^2 \\ &= 3.2 \times \underline{1^2} \\ &= \underline{3.2 \times 1} \\ &= \underline{3.2} \end{aligned}$$

$$\begin{aligned} & (3.3 + \underline{(2.6)^2} - 6.6 \div 3.75) \times 1.5 \\ &= (3.3 + 6.76 - \underline{6.6 \div 3.75}) \times 1.5 \\ &= (\underline{3.3 + 6.76} - 1.76) \times 1.5 \\ &= (\underline{10.06 - 1.76}) \times 1.5 \\ &= \underline{8.3 \times 1.5} \\ &= \underline{12.45} \end{aligned}$$

$$\begin{aligned} & (\underline{(5.1)^2} + 4.3 \times 3.7 - 9.3) \div 1.4 \\ &= (26.01 + \underline{4.3 \times 3.7} - 9.3) \div 1.4 \\ &= (\underline{26.01 + 15.91} - 9.3) \div 1.4 \\ &= (\underline{41.92 - 9.3}) \div 1.4 \\ &= \underline{32.62 \div 1.4} \\ &= \underline{23.3} \end{aligned}$$

$$\begin{aligned} & 4.8 \div (\underline{9.5 - 7.5}) \times 5.3 + (3.6)^2 \\ &= 4.8 \div 2 \times 5.3 + \underline{(3.6)^2} \\ &= \underline{4.8 \div 2} \times 5.3 + 12.96 \\ &= \underline{2.4 \times 5.3} + 12.96 \\ &= \underline{12.72 + 12.96} \\ &= \underline{25.68} \end{aligned}$$

$$\begin{aligned} & (\underline{(7.9)^2} + 4.5 - 5.5) \div 8.9 \times 1.4 \\ &= (\underline{62.41 + 4.5} - 5.5) \div 8.9 \times 1.4 \\ &= (\underline{66.91 - 5.5}) \div 8.9 \times 1.4 \\ &= \underline{61.41 \div 8.9} \times 1.4 \\ &= \underline{6.9 \times 1.4} \\ &= \underline{9.66} \end{aligned}$$

$$\begin{aligned} & ((\underline{7.5 + 2.8} - 9.7)^2 \times 6.5) \div 5.2 \\ &= ((\underline{10.3 - 9.7})^2 \times 6.5) \div 5.2 \\ &= (\underline{(0.6)^2} \times 6.5) \div 5.2 \\ &= (\underline{0.36 \times 6.5}) \div 5.2 \\ &= \underline{2.34 \div 5.2} \\ &= \underline{0.45} \end{aligned}$$

$$\begin{aligned} & (\underline{3.6 + 3.3} - 2.5)^2 \div 3.2 \times 2.4 \\ &= (\underline{6.9 - 2.5})^2 \div 3.2 \times 2.4 \\ &= \underline{(4.4)^2} \div 3.2 \times 2.4 \\ &= \underline{19.36 \div 3.2} \times 2.4 \\ &= \underline{6.05 \times 2.4} \\ &= \underline{14.52} \end{aligned}$$

$$\begin{aligned} & (\underline{(2.8)^2} \div 2.8 + 4.7) \times 9.6 - 4.8 \\ &= (\underline{7.84 \div 2.8} + 4.7) \times 9.6 - 4.8 \\ &= (\underline{2.8 + 4.7}) \times 9.6 - 4.8 \\ &= \underline{7.5 \times 9.6} - 4.8 \\ &= \underline{72 - 4.8} \\ &= \underline{67.2} \end{aligned}$$

Order of Operations with Decimals (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(3.75 + 3.4) \div 1.25 \times (3.5)^2 - 1.6$$

$$8.9 + (8.2)^2 \times ((9.2 - 1.6) \div 7.6)$$

$$(2.7 - 2.2 \div 4.4) \times 8.2 + (8.5)^2$$

$$9.7 \div (3.4 - 2.4)^3 \times (5.6 + 2.2)$$

$$(5.8 \times 2.4 - (1.2)^2) \div 1.3 + 7.9$$

$$(5.6)^2 \div 1.4 + 9.8 \times (5.7 - 3.8)$$

$$(4.1 \times 9.4 + (4.9)^2) \div 4.5 - 6.8$$

$$(8.2)^2 \div 4.1 \times (1.1 + 5.9 - 3.2)$$

Order of Operations with Decimals (F) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (\underline{3.75 + 3.4}) \div 1.25 \times (3.5)^2 - 1.6 \\ & = 7.15 \div 1.25 \times \underline{(3.5)^2} - 1.6 \\ & = \underline{7.15 \div 1.25} \times 12.25 - 1.6 \\ & = \underline{5.72 \times 12.25} - 1.6 \\ & = \underline{70.07 - 1.6} \\ & = 68.47 \end{aligned}$$

$$\begin{aligned} & 8.9 + (8.2)^2 \times ((\underline{9.2 - 1.6}) \div 7.6) \\ & = 8.9 + (8.2)^2 \times \underline{(7.6 \div 7.6)} \\ & = 8.9 + \underline{(8.2)^2} \times 1 \\ & = 8.9 + \underline{67.24 \times 1} \\ & = \underline{8.9 + 67.24} \\ & = 76.14 \end{aligned}$$

$$\begin{aligned} & (2.7 - \underline{2.2 \div 4.4}) \times 8.2 + (8.5)^2 \\ & = (\underline{2.7 - 0.5}) \times 8.2 + (8.5)^2 \\ & = 2.2 \times 8.2 + \underline{(8.5)^2} \\ & = \underline{2.2 \times 8.2} + 72.25 \\ & = \underline{18.04 + 72.25} \\ & = 90.29 \end{aligned}$$

$$\begin{aligned} & 9.7 \div (\underline{3.4 - 2.4})^3 \times (5.6 + 2.2) \\ & = 9.7 \div 1^3 \times \underline{(5.6 + 2.2)} \\ & = 9.7 \div \underline{1^3} \times 7.8 \\ & = \underline{9.7 \div 1} \times 7.8 \\ & = \underline{9.7 \times 7.8} \\ & = 75.66 \end{aligned}$$

$$\begin{aligned} & (5.8 \times 2.4 - \underline{(1.2)^2}) \div 1.3 + 7.9 \\ & = (\underline{5.8 \times 2.4} - 1.44) \div 1.3 + 7.9 \\ & = (\underline{13.92 - 1.44}) \div 1.3 + 7.9 \\ & = \underline{12.48 \div 1.3} + 7.9 \\ & = \underline{9.6 + 7.9} \\ & = 17.5 \end{aligned}$$

$$\begin{aligned} & (5.6)^2 \div 1.4 + 9.8 \times (\underline{5.7 - 3.8}) \\ & = \underline{(5.6)^2} \div 1.4 + 9.8 \times 1.9 \\ & = \underline{31.36 \div 1.4} + 9.8 \times 1.9 \\ & = 22.4 + \underline{9.8 \times 1.9} \\ & = \underline{22.4 + 18.62} \\ & = 41.02 \end{aligned}$$

$$\begin{aligned} & (4.1 \times 9.4 + \underline{(4.9)^2}) \div 4.5 - 6.8 \\ & = (\underline{4.1 \times 9.4} + 24.01) \div 4.5 - 6.8 \\ & = (\underline{38.54 + 24.01}) \div 4.5 - 6.8 \\ & = \underline{62.55 \div 4.5} - 6.8 \\ & = \underline{13.9 - 6.8} \\ & = 7.1 \end{aligned}$$

$$\begin{aligned} & (8.2)^2 \div 4.1 \times (\underline{1.1 + 5.9} - 3.2) \\ & = (8.2)^2 \div 4.1 \times \underline{(7 - 3.2)} \\ & = \underline{(8.2)^2} \div 4.1 \times 3.8 \\ & = \underline{67.24 \div 4.1} \times 3.8 \\ & = \underline{16.4 \times 3.8} \\ & = 62.32 \end{aligned}$$

Order of Operations with Decimals (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((2.1)^2 + 9.2 \times 2.2) \div 1.25 - 3.9$$

$$((5.3)^2 + 4.3) \div 4.1 \times 1.3 - 8.9$$

$$7.4 + 5.8 - (7.6)^2 \div (3.8 \times 1.6)$$

$$((3.1)^2 - 2.2) \div 1.9 \times 9.2 + 2.2$$

$$(9.6 \div 6.4) \times 7.2 - 6.3 + (5.5)^2$$

$$4.1 + (2.4)^2 \div (2.7 - 1.9) \times 2.8$$

$$2.2 \times (2.2 + (4.5)^2 - 3.3 \div 4.4)$$

$$9.9 \times ((2.3 + 4.8 - 7.1)^3 \div 1.25)$$

Order of Operations with Decimals (G) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((2.1)^2 + 9.2 \times 2.2) \div 1.25 - 3.9 \\ &= (4.41 + 9.2 \times 2.2) \div 1.25 - 3.9 \\ &= (4.41 + 20.24) \div 1.25 - 3.9 \\ &= 24.65 \div 1.25 - 3.9 \\ &= 19.72 - 3.9 \\ &= 15.82 \end{aligned}$$

$$\begin{aligned} & ((5.3)^2 + 4.3) \div 4.1 \times 1.3 - 8.9 \\ &= (28.09 + 4.3) \div 4.1 \times 1.3 - 8.9 \\ &= 32.39 \div 4.1 \times 1.3 - 8.9 \\ &= 7.9 \times 1.3 - 8.9 \\ &= 10.27 - 8.9 \\ &= 1.37 \end{aligned}$$

$$\begin{aligned} & 7.4 + 5.8 - (7.6)^2 \div (3.8 \times 1.6) \\ &= 7.4 + 5.8 - (7.6)^2 \div 6.08 \\ &= 7.4 + 5.8 - 57.76 \div 6.08 \\ &= 7.4 + 5.8 - 9.5 \\ &= 13.2 - 9.5 \\ &= 3.7 \end{aligned}$$

$$\begin{aligned} & ((3.1)^2 - 2.2) \div 1.9 \times 9.2 + 2.2 \\ &= (9.61 - 2.2) \div 1.9 \times 9.2 + 2.2 \\ &= 7.41 \div 1.9 \times 9.2 + 2.2 \\ &= 3.9 \times 9.2 + 2.2 \\ &= 35.88 + 2.2 \\ &= 38.08 \end{aligned}$$

$$\begin{aligned} & (9.6 \div 6.4) \times 7.2 - 6.3 + (5.5)^2 \\ &= 1.5 \times 7.2 - 6.3 + (5.5)^2 \\ &= 1.5 \times 7.2 - 6.3 + 30.25 \\ &= 10.8 - 6.3 + 30.25 \\ &= 4.5 + 30.25 \\ &= 34.75 \end{aligned}$$

$$\begin{aligned} & 4.1 + (2.4)^2 \div (2.7 - 1.9) \times 2.8 \\ &= 4.1 + (2.4)^2 \div 0.8 \times 2.8 \\ &= 4.1 + 5.76 \div 0.8 \times 2.8 \\ &= 4.1 + 7.2 \times 2.8 \\ &= 4.1 + 20.16 \\ &= 24.26 \end{aligned}$$

$$\begin{aligned} & 2.2 \times (2.2 + (4.5)^2 - 3.3 \div 4.4) \\ &= 2.2 \times (2.2 + 20.25 - 3.3 \div 4.4) \\ &= 2.2 \times (2.2 + 20.25 - 0.75) \\ &= 2.2 \times (22.45 - 0.75) \\ &= 2.2 \times 21.7 \\ &= 47.74 \end{aligned}$$

$$\begin{aligned} & 9.9 \times ((2.3 + 4.8 - 7.1)^3 \div 1.25) \\ &= 9.9 \times ((7.1 - 7.1)^3 \div 1.25) \\ &= 9.9 \times (0^3 \div 1.25) \\ &= 9.9 \times (0 \div 1.25) \\ &= 9.9 \times 0 \\ &= 0 \end{aligned}$$

Order of Operations with Decimals (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(1.6 \div 1.25) \times (6.5 + 6.6 - 9.1)^2$$

$$((3.6)^2 \div 1.6 - 4.2) \times 6.9 + 2.1$$

$$(2.4)^2 + 8.5 \times (7.7 - 3.1) \div 1.7$$

$$(8.5)^2 - 9.2 \times (7.6 + 1.6) \div 2.3$$

$$(5.5)^2 - 7.2 \times ((4.2 + 5.7) \div 4.4)$$

$$(3.4 + (8.4)^2 \div 2.8) \times 2.6 - 9.3$$

$$(2.4 \times 6.6) \div 1.8 + (7.5)^2 - 1.6$$

$$6.6 + (2.7)^2 \div (8.2 - 5.5) \times 2.2$$

Order of Operations with Decimals (H) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (\underline{1.6 \div 1.25}) \times (6.5 + 6.6 - 9.1)^2 \\ &= 1.28 \times (\underline{6.5 + 6.6 - 9.1})^2 \\ &= 1.28 \times (\underline{13.1 - 9.1})^2 \\ &= 1.28 \times \underline{4^2} \\ &= \underline{1.28 \times 16} \\ &= 20.48 \end{aligned}$$

$$\begin{aligned} & (\underline{(3.6)^2} \div 1.6 - 4.2) \times 6.9 + 2.1 \\ &= (\underline{12.96 \div 1.6 - 4.2}) \times 6.9 + 2.1 \\ &= (\underline{8.1 - 4.2}) \times 6.9 + 2.1 \\ &= \underline{3.9 \times 6.9} + 2.1 \\ &= \underline{26.91 + 2.1} \\ &= 29.01 \end{aligned}$$

$$\begin{aligned} & (2.4)^2 + 8.5 \times (\underline{7.7 - 3.1}) \div 1.7 \\ &= (\underline{2.4})^2 + 8.5 \times 4.6 \div 1.7 \\ &= 5.76 + \underline{8.5 \times 4.6} \div 1.7 \\ &= 5.76 + \underline{39.1 \div 1.7} \\ &= \underline{5.76 + 23} \\ &= 28.76 \end{aligned}$$

$$\begin{aligned} & (8.5)^2 - 9.2 \times (\underline{7.6 + 1.6}) \div 2.3 \\ &= (\underline{8.5})^2 - 9.2 \times 9.2 \div 2.3 \\ &= 72.25 - \underline{9.2 \times 9.2} \div 2.3 \\ &= 72.25 - \underline{84.64 \div 2.3} \\ &= \underline{72.25 - 36.8} \\ &= 35.45 \end{aligned}$$

$$\begin{aligned} & (5.5)^2 - 7.2 \times ((\underline{4.2 + 5.7}) \div 4.4) \\ &= (5.5)^2 - 7.2 \times (\underline{9.9 \div 4.4}) \\ &= (\underline{5.5})^2 - 7.2 \times 2.25 \\ &= 30.25 - \underline{7.2 \times 2.25} \\ &= \underline{30.25 - 16.2} \\ &= 14.05 \end{aligned}$$

$$\begin{aligned} & (3.4 + (\underline{8.4})^2 \div 2.8) \times 2.6 - 9.3 \\ &= (3.4 + \underline{70.56 \div 2.8}) \times 2.6 - 9.3 \\ &= (\underline{3.4 + 25.2}) \times 2.6 - 9.3 \\ &= \underline{28.6 \times 2.6} - 9.3 \\ &= \underline{74.36 - 9.3} \\ &= 65.06 \end{aligned}$$

$$\begin{aligned} & (\underline{2.4 \times 6.6}) \div 1.8 + (7.5)^2 - 1.6 \\ &= 15.84 \div 1.8 + (\underline{7.5})^2 - 1.6 \\ &= \underline{15.84 \div 1.8} + 56.25 - 1.6 \\ &= \underline{8.8 + 56.25} - 1.6 \\ &= \underline{65.05 - 1.6} \\ &= 63.45 \end{aligned}$$

$$\begin{aligned} & 6.6 + (2.7)^2 \div (\underline{8.2 - 5.5}) \times 2.2 \\ &= 6.6 + (\underline{2.7})^2 \div 2.7 \times 2.2 \\ &= 6.6 + \underline{7.29 \div 2.7} \times 2.2 \\ &= 6.6 + \underline{2.7 \times 2.2} \\ &= \underline{6.6 + 5.94} \\ &= 12.54 \end{aligned}$$

Order of Operations with Decimals (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(3.6 \times 3.7 + (3.2)^2 - 4.8) \div 1.4$$

$$3.75 \times ((2.2 + 3.2)^2 \div 8.1 - 1.4)$$

$$((2.2 + 8.9) \div 7.4)^2 \times 5.4 - 6.4$$

$$(6.6 \div 2.2) \times 3.9 + (3.1)^2 - 7.5$$

$$((5.8)^2 \div (1.2 + 8.3 - 6.6)) \times 2.3$$

$$9.8 \times (1.9 \div (2.5 + 5.7 - 4.4))^2$$

$$((8.5)^2 + 2.8 \times 2.3) \div (6.7 - 3.7)$$

$$(4.1 + 2.7 - 6.8) \div (1.4)^2 \times 7.9$$

Order of Operations with Decimals (I) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (3.6 \times 3.7 + \underline{(3.2)^2} - 4.8) \div 1.4 \\ & = (\underline{3.6 \times 3.7} + 10.24 - 4.8) \div 1.4 \\ & = (\underline{13.32} + \underline{10.24} - 4.8) \div 1.4 \\ & = (\underline{23.56} - 4.8) \div 1.4 \\ & = \underline{18.76} \div 1.4 \\ & = 13.4 \end{aligned}$$

$$\begin{aligned} & ((\underline{2.2} + \underline{8.9}) \div 7.4)^2 \times 5.4 - 6.4 \\ & = (\underline{11.1} \div 7.4)^2 \times 5.4 - 6.4 \\ & = \underline{(1.5)^2} \times 5.4 - 6.4 \\ & = \underline{2.25} \times 5.4 - 6.4 \\ & = \underline{12.15} - 6.4 \\ & = 5.75 \end{aligned}$$

$$\begin{aligned} & ((5.8)^2 \div (\underline{1.2} + \underline{8.3} - 6.6)) \times 2.3 \\ & = ((5.8)^2 \div (\underline{9.5} - \underline{6.6})) \times 2.3 \\ & = (\underline{(5.8)^2} \div 2.9) \times 2.3 \\ & = (\underline{33.64} \div \underline{2.9}) \times 2.3 \\ & = \underline{11.6} \times 2.3 \\ & = 26.68 \end{aligned}$$

$$\begin{aligned} & (\underline{(8.5)^2} + 2.8 \times 2.3) \div (6.7 - 3.7) \\ & = (72.25 + \underline{2.8 \times 2.3}) \div (6.7 - 3.7) \\ & = (\underline{72.25} + \underline{6.44}) \div (6.7 - 3.7) \\ & = 78.69 \div (\underline{6.7} - \underline{3.7}) \\ & = \underline{78.69} \div 3 \\ & = 26.23 \end{aligned}$$

$$\begin{aligned} & 3.75 \times ((\underline{2.2} + \underline{3.2})^2 \div 8.1 - 1.4) \\ & = 3.75 \times (\underline{(5.4)^2} \div 8.1 - 1.4) \\ & = 3.75 \times (\underline{29.16} \div \underline{8.1} - 1.4) \\ & = 3.75 \times (\underline{3.6} - 1.4) \\ & = \underline{3.75} \times \underline{2.2} \\ & = 8.25 \end{aligned}$$

$$\begin{aligned} & (\underline{6.6} \div \underline{2.2}) \times 3.9 + (3.1)^2 - 7.5 \\ & = 3 \times 3.9 + \underline{(3.1)^2} - 7.5 \\ & = \underline{3 \times 3.9} + 9.61 - 7.5 \\ & = \underline{11.7} + \underline{9.61} - 7.5 \\ & = \underline{21.31} - 7.5 \\ & = 13.81 \end{aligned}$$

$$\begin{aligned} & 9.8 \times (1.9 \div (\underline{2.5} + \underline{5.7} - 4.4))^2 \\ & = 9.8 \times (1.9 \div (\underline{8.2} - \underline{4.4}))^2 \\ & = 9.8 \times (\underline{1.9} \div \underline{3.8})^2 \\ & = 9.8 \times \underline{(0.5)^2} \\ & = \underline{9.8} \times \underline{0.25} \\ & = 2.45 \end{aligned}$$

$$\begin{aligned} & (\underline{4.1} + \underline{2.7} - 6.8) \div (1.4)^2 \times 7.9 \\ & = (\underline{6.8} - 6.8) \div (1.4)^2 \times 7.9 \\ & = 0 \div \underline{(1.4)^2} \times 7.9 \\ & = \underline{0} \div \underline{1.96} \times 7.9 \\ & = \underline{0} \times 7.9 \\ & = 0 \end{aligned}$$

Order of Operations with Decimals (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((3.3)^2 \div (7.5 + 2.7 - 5.7)) \times 1.5$$

$$(8.2 - (4.5)^2 \div (3.3 + 4.8)) \times 1.2$$

$$(3.4 + (9.6)^2 - 1.5 \times 3.6) \div 3.5$$

$$(7.2 + 9.8 - 2.5 \times 6.8) \div (4.8)^2$$

$$(1.1)^2 + 1.3 \times (2.9 - 3.6 \div 1.8)$$

$$((3.8)^2 \div 1.9 + 1.1) \times 3.4 - 2.8$$

$$(3.6)^2 + 3.1 \times (3.8 \div (9.5 - 9.3))$$

$$(1.5 + 6.4 \div 1.6) \times 9.2 - (2.9)^2$$

Order of Operations with Decimals (J) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((3.3)^2 \div (7.5 + 2.7 - 5.7)) \times 1.5 \\ &= ((3.3)^2 \div (10.2 - 5.7)) \times 1.5 \\ &= ((3.3)^2 \div 4.5) \times 1.5 \\ &= (10.89 \div 4.5) \times 1.5 \\ &= 2.42 \times 1.5 \\ &= 3.63 \end{aligned}$$

$$\begin{aligned} & (8.2 - (4.5)^2 \div (3.3 + 4.8)) \times 1.2 \\ &= (8.2 - (4.5)^2 \div 8.1) \times 1.2 \\ &= (8.2 - 20.25 \div 8.1) \times 1.2 \\ &= (8.2 - 2.5) \times 1.2 \\ &= 5.7 \times 1.2 \\ &= 6.84 \end{aligned}$$

$$\begin{aligned} & (3.4 + (9.6)^2 - 1.5 \times 3.6) \div 3.5 \\ &= (3.4 + 92.16 - 1.5 \times 3.6) \div 3.5 \\ &= (3.4 + 92.16 - 5.4) \div 3.5 \\ &= (95.56 - 5.4) \div 3.5 \\ &= 90.16 \div 3.5 \\ &= 25.76 \end{aligned}$$

$$\begin{aligned} & (7.2 + 9.8 - 2.5 \times 6.8) \div (4.8)^2 \\ &= (7.2 + 9.8 - 17) \div (4.8)^2 \\ &= (17 - 17) \div (4.8)^2 \\ &= 0 \div (4.8)^2 \\ &= 0 \div 23.04 \\ &= 0 \end{aligned}$$

$$\begin{aligned} & (1.1)^2 + 1.3 \times (2.9 - 3.6 \div 1.8) \\ &= (1.1)^2 + 1.3 \times (2.9 - 2) \\ &= (1.1)^2 + 1.3 \times 0.9 \\ &= 1.21 + 1.3 \times 0.9 \\ &= 1.21 + 1.17 \\ &= 2.38 \end{aligned}$$

$$\begin{aligned} & ((3.8)^2 \div 1.9 + 1.1) \times 3.4 - 2.8 \\ &= (14.44 \div 1.9 + 1.1) \times 3.4 - 2.8 \\ &= (7.6 + 1.1) \times 3.4 - 2.8 \\ &= 8.7 \times 3.4 - 2.8 \\ &= 29.58 - 2.8 \\ &= 26.78 \end{aligned}$$

$$\begin{aligned} & (3.6)^2 + 3.1 \times (3.8 \div (9.5 - 9.3)) \\ &= (3.6)^2 + 3.1 \times (3.8 \div 0.2) \\ &= (3.6)^2 + 3.1 \times 19 \\ &= 12.96 + 3.1 \times 19 \\ &= 12.96 + 58.9 \\ &= 71.86 \end{aligned}$$

$$\begin{aligned} & (1.5 + 6.4 \div 1.6) \times 9.2 - (2.9)^2 \\ &= (1.5 + 4) \times 9.2 - (2.9)^2 \\ &= 5.5 \times 9.2 - (2.9)^2 \\ &= 5.5 \times 9.2 - 8.41 \\ &= 50.6 - 8.41 \\ &= 42.19 \end{aligned}$$