

Order of Operations with Decimals (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$1,4 \times ((-9,1) + 7,3 - (2,2)^2 \div (-8,8))$$

$$(-9,6)^2 + (-5,4) \div 1,8 \times (8,3 - 0,6)$$

$$5,7 + (-0,9) \div ((-4,3) - (-4,9)) \times (2,4)^2$$

$$((-7,4) \times (-0,1) - (-6,8)^2) \div (7,3 + (-4,7))$$

$$(-2,4)^2 \div (2,5 + 2,2 - 6,3) \times 4,7$$

$$((-4,2) \times 2,4) \div 1,8 - (-4,8)^2 + 1,4$$

Order of Operations with Decimals (A) Answers

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & 1,4 \times ((-9,1) + 7,3 - \underline{(2,2)^2} \div (-8,8)) \\ & = 1,4 \times ((-9,1) + 7,3 - \underline{4,84 \div (-8,8)}) \\ & = 1,4 \times (\underline{(-9,1) + 7,3} - (-0,55)) \\ & = 1,4 \times (\underline{(-1,8) - (-0,55)}) \\ & = \underline{1,4 \times (-1,25)} \\ & = -1,75 \end{aligned}$$

$$\begin{aligned} & (-9,6)^2 + (-5,4) \div 1,8 \times \underline{(8,3 - 0,6)} \\ & = \underline{(-9,6)^2} + (-5,4) \div 1,8 \times 7,7 \\ & = 92,16 + \underline{(-5,4) \div 1,8} \times 7,7 \\ & = 92,16 + \underline{(-3) \times 7,7} \\ & = \underline{92,16 + (-23,1)} \\ & = 69,06 \end{aligned}$$

$$\begin{aligned} & 5,7 + (-0,9) \div (\underline{(-4,3) - (-4,9)}) \times (2,4)^2 \\ & = 5,7 + (-0,9) \div 0,6 \times \underline{(2,4)^2} \\ & = 5,7 + \underline{(-0,9) \div 0,6} \times 5,76 \\ & = 5,7 + \underline{(-1,5) \times 5,76} \\ & = \underline{5,7 + (-8,64)} \\ & = -2,94 \end{aligned}$$

$$\begin{aligned} & ((-7,4) \times (-0,1) - \underline{(-6,8)^2}) \div (7,3 + (-4,7)) \\ & = (\underline{(-7,4) \times (-0,1)} - 46,24) \div (7,3 + (-4,7)) \\ & = \underline{(0,74 - 46,24)} \div (7,3 + (-4,7)) \\ & = (-45,5) \div \underline{(7,3 + (-4,7))} \\ & = \underline{(-45,5) \div 2,6} \\ & = -17,5 \end{aligned}$$

$$\begin{aligned} & (-2,4)^2 \div (\underline{2,5 + 2,2} - 6,3) \times 4,7 \\ & = (-2,4)^2 \div (\underline{4,7 - 6,3}) \times 4,7 \\ & = \underline{(-2,4)^2} \div (-1,6) \times 4,7 \\ & = \underline{5,76 \div (-1,6)} \times 4,7 \\ & = \underline{(-3,6) \times 4,7} \\ & = -16,92 \end{aligned}$$

$$\begin{aligned} & (\underline{(-4,2) \times 2,4}) \div 1,8 - (-4,8)^2 + 1,4 \\ & = (-10,08) \div 1,8 - \underline{(-4,8)^2} + 1,4 \\ & = \underline{(-10,08) \div 1,8} - 23,04 + 1,4 \\ & = \underline{(-5,6) - 23,04} + 1,4 \\ & = \underline{(-28,64) + 1,4} \\ & = -27,24 \end{aligned}$$

Order of Operations with Decimals (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(3,3)^2 \div 5,5 \times (5,4 - (-8,7) + 5,9)$$

$$((2,5)^2 \div (9,1 - 2,2 + 5,6)) \times 4,3$$

$$(-7,7)^2 \div ((-0,5) \times 5,6 + (-2,4) - (-0,3))$$

$$(2,4 + 3,6 \times (-9,4) - (-3,6)^2) \div 0,6$$

$$(((-0,8) + 8,6) \div (-1,3)) \times (-8,6) - (7,6)^2$$

$$((3,6)^2 - 5,1 \div (4,1 + (-6,6))) \times (-2,3)$$

Order of Operations with Decimals (B) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned}(3,3)^2 \div 5,5 \times (5,4 - (-8,7) + 5,9) \\ &= (3,3)^2 \div 5,5 \times (14,1 + 5,9) \\ &= (3,3)^2 \div 5,5 \times 20 \\ &= 10,89 \div 5,5 \times 20 \\ &= 1,98 \times 20 \\ &= 39,6\end{aligned}$$

$$\begin{aligned}((2,5)^2 \div (9,1 - 2,2 + 5,6)) \times 4,3 \\ &= ((2,5)^2 \div (6,9 + 5,6)) \times 4,3 \\ &= ((2,5)^2 \div 12,5) \times 4,3 \\ &= (6,25 \div 12,5) \times 4,3 \\ &= 0,5 \times 4,3 \\ &= 2,15\end{aligned}$$

$$\begin{aligned}(-7,7)^2 \div ((-0,5) \times 5,6 + (-2,4) - (-0,3)) \\ &= (-7,7)^2 \div ((-2,8) + (-2,4) - (-0,3)) \\ &= (-7,7)^2 \div ((-5,2) - (-0,3)) \\ &= (-7,7)^2 \div (-4,9) \\ &= 59,29 \div (-4,9) \\ &= -12,1\end{aligned}$$

$$\begin{aligned}(2,4 + 3,6 \times (-9,4) - (-3,6)^2) \div 0,6 \\ &= (2,4 + 3,6 \times (-9,4) - 12,96) \div 0,6 \\ &= (2,4 + (-33,84) - 12,96) \div 0,6 \\ &= ((-31,44) - 12,96) \div 0,6 \\ &= (-44,4) \div 0,6 \\ &= -74\end{aligned}$$

$$\begin{aligned}(((-0,8) + 8,6) \div (-1,3)) \times (-8,6) - (7,6)^2 \\ &= (7,8 \div (-1,3)) \times (-8,6) - (7,6)^2 \\ &= (-6) \times (-8,6) - (7,6)^2 \\ &= (-6) \times (-8,6) - 57,76 \\ &= 51,6 - 57,76 \\ &= -6,16\end{aligned}$$

$$\begin{aligned}((3,6)^2 - 5,1 \div (4,1 + (-6,6))) \times (-2,3) \\ &= ((3,6)^2 - 5,1 \div (-2,5)) \times (-2,3) \\ &= (12,96 - 5,1 \div (-2,5)) \times (-2,3) \\ &= (12,96 - (-2,04)) \times (-2,3) \\ &= 15 \times (-2,3) \\ &= -34,5\end{aligned}$$

Order of Operations with Decimals (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(-5,7) \times (2,9 - 2,3 + (-2,8)^2 \div (-1,6))$$

$$2,2 \times ((-2,7) + 7,9 - 8,7)^2 \div 1,4$$

$$((-8,8) \div 8,8 - (-6,6)^2) \times (5,3 + (-4,8))$$

$$(0,4 \times (-1,5)) \div (-0,5) + 7,8 - (6,2)^2$$

$$((-5,1) \div (-0,6)) \times 1,5 - 1,4 + (-0,7)^2$$

$$(6,2 \times 8,7 + 6,6 - (1,3)^2) \div (-2,5)$$

Order of Operations with Decimals (C) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (-5,7) \times (2,9 - 2,3 + \underline{(-2,8)^2} \div (-1,6)) \\ & = (-5,7) \times (2,9 - 2,3 + \underline{7,84 \div (-1,6)}) \\ & = (-5,7) \times (\underline{2,9 - 2,3} + (-4,9)) \\ & = (-5,7) \times (\underline{0,6 + (-4,9)}) \\ & = \underline{(-5,7) \times (-4,3)} \\ & = 24,51 \end{aligned}$$

$$\begin{aligned} & 2,2 \times (\underline{(-2,7) + 7,9} - 8,7)^2 \div 1,4 \\ & = 2,2 \times (\underline{5,2 - 8,7})^2 \div 1,4 \\ & = 2,2 \times \underline{(-3,5)^2} \div 1,4 \\ & = \underline{2,2 \times 12,25} \div 1,4 \\ & = \underline{26,95} \div 1,4 \\ & = 19,25 \end{aligned}$$

$$\begin{aligned} & ((-8,8) \div 8,8 - \underline{(-6,6)^2}) \times (5,3 + (-4,8)) \\ & = (\underline{(-8,8) \div 8,8} - 43,56) \times (5,3 + (-4,8)) \\ & = (\underline{(-1) - 43,56}) \times (5,3 + (-4,8)) \\ & = (-44,56) \times (\underline{5,3 + (-4,8)}) \\ & = \underline{(-44,56) \times 0,5} \\ & = -22,28 \end{aligned}$$

$$\begin{aligned} & (\underline{0,4 \times (-1,5)}) \div (-0,5) + 7,8 - (6,2)^2 \\ & = (-0,6) \div (-0,5) + 7,8 - \underline{(6,2)^2} \\ & = \underline{(-0,6) \div (-0,5)} + 7,8 - 38,44 \\ & = \underline{1,2 + 7,8} - 38,44 \\ & = \underline{9 - 38,44} \\ & = -29,44 \end{aligned}$$

$$\begin{aligned} & (\underline{(-5,1) \div (-0,6)}) \times 1,5 - 1,4 + (-0,7)^2 \\ & = 8,5 \times 1,5 - 1,4 + \underline{(-0,7)^2} \\ & = \underline{8,5 \times 1,5} - 1,4 + 0,49 \\ & = \underline{12,75 - 1,4} + 0,49 \\ & = \underline{11,35 + 0,49} \\ & = 11,84 \end{aligned}$$

$$\begin{aligned} & (6,2 \times 8,7 + 6,6 - \underline{(1,3)^2}) \div (-2,5) \\ & = (\underline{6,2 \times 8,7} + 6,6 - 1,69) \div (-2,5) \\ & = (\underline{53,94 + 6,6} - 1,69) \div (-2,5) \\ & = (\underline{60,54 - 1,69}) \div (-2,5) \\ & = \underline{58,85} \div (-2,5) \\ & = -23,54 \end{aligned}$$

Order of Operations with Decimals (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((-2,5) + (0,9)^2 - 3,2) \div ((-0,5) \times (-0,4))$$

$$(7,6 \div ((-7,2) + 8,8)) \times (4,2)^2 - 0,3$$

$$((-6,9) + (-4,1)) \div (-0,4)^2 - 2,7 \times 6,8$$

$$1,25 \div (0,5)^2 \times (5,3 - 6,8 + (-8,7))$$

$$(-3,1)^2 - 6,8 \times ((-5,7) \div (-0,4) + (-8,7))$$

$$(-0,8) \div ((-0,2)^2 - (-7,8) \times (-0,3) + 0,7)$$

Order of Operations with Decimals (D) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} &((-2,5) + \underline{(0,9)^2} - 3,2) \div ((-0,5) \times (-0,4)) \\ &= \underline{((-2,5) + 0,81 - 3,2)} \div ((-0,5) \times (-0,4)) \\ &= \underline{(-1,69) - 3,2} \div ((-0,5) \times (-0,4)) \\ &= (-4,89) \div \underline{((-0,5) \times (-0,4))} \\ &= \underline{(-4,89) \div 0,2} \\ &= -24,45 \end{aligned}$$

$$\begin{aligned} &(7,6 \div \underline{((-7,2) + 8,8)}) \times (4,2)^2 - 0,3 \\ &= \underline{(7,6 \div 1,6)} \times (4,2)^2 - 0,3 \\ &= 4,75 \times \underline{(4,2)^2} - 0,3 \\ &= \underline{4,75 \times 17,64} - 0,3 \\ &= \underline{83,79 - 0,3} \\ &= 83,49 \end{aligned}$$

$$\begin{aligned} &\underline{((-6,9) + (-4,1))} \div (-0,4)^2 - 2,7 \times 6,8 \\ &= (-11) \div \underline{(-0,4)^2} - 2,7 \times 6,8 \\ &= \underline{(-11) \div 0,16} - 2,7 \times 6,8 \\ &= (-68,75) - \underline{2,7 \times 6,8} \\ &= \underline{(-68,75) - 18,36} \\ &= -87,11 \end{aligned}$$

$$\begin{aligned} &1,25 \div (0,5)^2 \times \underline{(5,3 - 6,8 + (-8,7))} \\ &= 1,25 \div (0,5)^2 \times \underline{((-1,5) + (-8,7))} \\ &= 1,25 \div \underline{(0,5)^2} \times (-10,2) \\ &= \underline{1,25 \div 0,25} \times (-10,2) \\ &= \underline{5 \times (-10,2)} \\ &= -51 \end{aligned}$$

$$\begin{aligned} &(-3,1)^2 - 6,8 \times \underline{((-5,7) \div (-0,4) + (-8,7))} \\ &= (-3,1)^2 - 6,8 \times \underline{(14,25 + (-8,7))} \\ &= \underline{(-3,1)^2} - 6,8 \times 5,55 \\ &= 9,61 - \underline{6,8 \times 5,55} \\ &= \underline{9,61 - 37,74} \\ &= -28,13 \end{aligned}$$

$$\begin{aligned} &(-0,8) \div \underline{((-0,2)^2} - (-7,8) \times (-0,3) + 0,7) \\ &= (-0,8) \div (0,04 - \underline{(-7,8) \times (-0,3)} + 0,7) \\ &= (-0,8) \div \underline{(0,04 - 2,34 + 0,7)} \\ &= (-0,8) \div \underline{((-2,3) + 0,7)} \\ &= \underline{(-0,8) \div (-1,6)} \\ &= 0,5 \end{aligned}$$

Order of Operations with Decimals (E)

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Date: _____

Simplify each expression using the correct order of operations.

$$(0,5 - (-8,7) \times (-8,3)) \div ((0,6)^2 + (-4,4))$$

$$9,9 + (-7,5) \times ((-3,5) \div 0,7 - (0,4)^2)$$

$$1,8 \div 2,4 \times (7,1 - (1,6)^2 + (-3,1))$$

$$((1,8)^2 \div 7,2 + (-6,8) - (-7,2)) \times (-4,6)$$

$$((-4,1) - (-7,1)) \div (0,4)^2 + 4,7 \times 5,3$$

$$(-7,5)^2 \times ((-6,6) \div (8,3 - (-4,9) + (-8,2)))$$

Order of Operations with Decimals (E) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (0,5 - \underline{(-8,7) \times (-8,3)}) \div ((0,6)^2 + (-4,4)) \\ &= \underline{(0,5 - 72,21)} \div ((0,6)^2 + (-4,4)) \\ &= (-71,71) \div \underline{((0,6)^2 + (-4,4))} \\ &= (-71,71) \div \underline{(0,36 + (-4,4))} \\ &= \underline{(-71,71) \div (-4,04)} \\ &= 17,75 \end{aligned}$$

$$\begin{aligned} & 9,9 + (-7,5) \times ((-3,5) \div 0,7 - \underline{(0,4)^2}) \\ &= 9,9 + (-7,5) \times \underline{((-3,5) \div 0,7 - 0,16)} \\ &= 9,9 + (-7,5) \times \underline{((-5) - 0,16)} \\ &= 9,9 + \underline{(-7,5) \times (-5,16)} \\ &= \underline{9,9 + 38,7} \\ &= 48,6 \end{aligned}$$

$$\begin{aligned} & 1,8 \div 2,4 \times (7,1 - \underline{(1,6)^2} + (-3,1)) \\ &= 1,8 \div 2,4 \times \underline{(7,1 - 2,56 + (-3,1))} \\ &= 1,8 \div 2,4 \times \underline{(4,54 + (-3,1))} \\ &= \underline{1,8 \div 2,4} \times 1,44 \\ &= \underline{0,75 \times 1,44} \\ &= 1,08 \end{aligned}$$

$$\begin{aligned} & \underline{(1,8)^2} \div 7,2 + (-6,8) - (-7,2) \times (-4,6) \\ &= \underline{(3,24 \div 7,2} + (-6,8) - (-7,2)) \times (-4,6) \\ &= \underline{(0,45 + (-6,8) - (-7,2))} \times (-4,6) \\ &= \underline{((-6,35) - (-7,2))} \times (-4,6) \\ &= \underline{0,85 \times (-4,6)} \\ &= -3,91 \end{aligned}$$

$$\begin{aligned} & \underline{((-4,1) - (-7,1))} \div (0,4)^2 + 4,7 \times 5,3 \\ &= 3 \div \underline{(0,4)^2} + 4,7 \times 5,3 \\ &= \underline{3 \div 0,16} + 4,7 \times 5,3 \\ &= 18,75 + \underline{4,7 \times 5,3} \\ &= \underline{18,75 + 24,91} \\ &= 43,66 \end{aligned}$$

$$\begin{aligned} & (-7,5)^2 \times ((-6,6) \div \underline{(8,3 - (-4,9) + (-8,2))}) \\ &= (-7,5)^2 \times ((-6,6) \div \underline{(13,2 + (-8,2))}) \\ &= (-7,5)^2 \times \underline{((-6,6) \div 5)} \\ &= \underline{(-7,5)^2} \times (-1,32) \\ &= \underline{56,25 \times (-1,32)} \\ &= -74,25 \end{aligned}$$

Order of Operations with Decimals (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((8,3)^2 \div (-8,3) - 8,5) \times ((-5,8) + 2,6)$$

$$(9,8 - 5,7 \times 4,6 + (8,2)^2) \div (-5,5)$$

$$(2,4 \times (-6,9)) \div (-1,6) + (-5,6) - (-3,3)^2$$

$$(2,1 \times (-4,1) + (-0,2) - 8,3) \div (0,5)^2$$

$$(-0,3)^2 + 2,4 \times (3,8 - 1,25) \div (-5,1)$$

$$((6,8)^2 \div 3,4) \times (0,5 + 3,3 - 5,1)$$

Order of Operations with Decimals (F) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(\underline{(8,3)^2} \div (-8,3) - 8,5 \right) \times ((-5,8) + 2,6) \\ & = \left(\underline{68,89 \div (-8,3)} - 8,5 \right) \times ((-5,8) + 2,6) \\ & = \left(\underline{(-8,3) - 8,5} \right) \times ((-5,8) + 2,6) \\ & = (-16,8) \times \left(\underline{(-5,8) + 2,6} \right) \\ & = \underline{(-16,8) \times (-3,2)} \\ & = 53,76 \end{aligned}$$

$$\begin{aligned} & \left(9,8 - 5,7 \times 4,6 + \underline{(8,2)^2} \right) \div (-5,5) \\ & = \left(9,8 - \underline{5,7 \times 4,6} + 67,24 \right) \div (-5,5) \\ & = \left(\underline{9,8 - 26,22} + 67,24 \right) \div (-5,5) \\ & = \left(\underline{(-16,42) + 67,24} \right) \div (-5,5) \\ & = \underline{50,82 \div (-5,5)} \\ & = -9,24 \end{aligned}$$

$$\begin{aligned} & \left(\underline{2,4 \times (-6,9)} \right) \div (-1,6) + (-5,6) - (-3,3)^2 \\ & = (-16,56) \div (-1,6) + (-5,6) - \underline{(-3,3)^2} \\ & = \underline{(-16,56) \div (-1,6)} + (-5,6) - 10,89 \\ & = \underline{10,35 + (-5,6)} - 10,89 \\ & = \underline{4,75 - 10,89} \\ & = -6,14 \end{aligned}$$

$$\begin{aligned} & \left(\underline{2,1 \times (-4,1)} + (-0,2) - 8,3 \right) \div (0,5)^2 \\ & = \left(\underline{(-8,61) + (-0,2)} - 8,3 \right) \div (0,5)^2 \\ & = \left(\underline{(-8,81) - 8,3} \right) \div (0,5)^2 \\ & = (-17,11) \div \underline{(0,5)^2} \\ & = \underline{(-17,11) \div 0,25} \\ & = -68,44 \end{aligned}$$

$$\begin{aligned} & (-0,3)^2 + 2,4 \times \left(\underline{3,8 - 1,25} \right) \div (-5,1) \\ & = \underline{(-0,3)^2} + 2,4 \times 2,55 \div (-5,1) \\ & = 0,09 + \underline{2,4 \times 2,55} \div (-5,1) \\ & = 0,09 + \underline{6,12 \div (-5,1)} \\ & = \underline{0,09 + (-1,2)} \\ & = -1,11 \end{aligned}$$

$$\begin{aligned} & \left(\underline{(6,8)^2} \div 3,4 \right) \times (0,5 + 3,3 - 5,1) \\ & = \left(\underline{46,24 \div 3,4} \right) \times (0,5 + 3,3 - 5,1) \\ & = 13,6 \times \left(\underline{0,5 + 3,3} - 5,1 \right) \\ & = 13,6 \times \left(\underline{3,8 - 5,1} \right) \\ & = \underline{13,6 \times (-1,3)} \\ & = -17,68 \end{aligned}$$

Order of Operations with Decimals (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((-9,8) - (-7,8) + 8,6)^2 \div (1,1 \times 4,5)$$

$$((-5,2) \div (-0,4)) \times 2,3 + 2,7 - (-0,9)^2$$

$$((-3,4) + (-7,9)) \times (-3,7) \div 7,4 - (-2,8)^2$$

$$((-0,7) \times (-0,3) - (1,9)^2) \div 0,8 + 7,2$$

$$8,3 + (-1,1) \div (-2,2) \times ((-3,1) - 6,3)^2$$

$$(7,1 \times 3,7 - (-4,5)^2 + 0,7) \div (-0,6)$$

Order of Operations with Decimals (G) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left(\underline{(-9,8) - (-7,8)} + 8,6 \right)^2 \div (1,1 \times 4,5) \\ & = \left(\underline{(-2) + 8,6} \right)^2 \div (1,1 \times 4,5) \\ & = (6,6)^2 \div \left(\underline{1,1 \times 4,5} \right) \\ & = \underline{(6,6)^2} \div 4,95 \\ & = \underline{43,56 \div 4,95} \\ & = 8,8 \end{aligned}$$

$$\begin{aligned} & \left(\underline{(-5,2) \div (-0,4)} \right) \times 2,3 + 2,7 - (-0,9)^2 \\ & = 13 \times 2,3 + 2,7 - \underline{(-0,9)^2} \\ & = \underline{13 \times 2,3} + 2,7 - 0,81 \\ & = \underline{29,9 + 2,7} - 0,81 \\ & = \underline{32,6 - 0,81} \\ & = 31,79 \end{aligned}$$

$$\begin{aligned} & \left(\underline{(-3,4) + (-7,9)} \right) \times (-3,7) \div 7,4 - (-2,8)^2 \\ & = (-11,3) \times (-3,7) \div 7,4 - \underline{(-2,8)^2} \\ & = \underline{(-11,3) \times (-3,7)} \div 7,4 - 7,84 \\ & = \underline{41,81 \div 7,4} - 7,84 \\ & = \underline{5,65 - 7,84} \\ & = -2,19 \end{aligned}$$

$$\begin{aligned} & \left((-0,7) \times (-0,3) - \underline{(1,9)^2} \right) \div 0,8 + 7,2 \\ & = \left(\underline{(-0,7) \times (-0,3)} - 3,61 \right) \div 0,8 + 7,2 \\ & = \left(\underline{0,21 - 3,61} \right) \div 0,8 + 7,2 \\ & = \underline{(-3,4) \div 0,8} + 7,2 \\ & = \underline{(-4,25) + 7,2} \\ & = 2,95 \end{aligned}$$

$$\begin{aligned} & 8,3 + (-1,1) \div (-2,2) \times \left(\underline{(-3,1) - 6,3} \right)^2 \\ & = 8,3 + (-1,1) \div (-2,2) \times \underline{(-9,4)^2} \\ & = 8,3 + \underline{(-1,1) \div (-2,2)} \times 88,36 \\ & = 8,3 + \underline{0,5 \times 88,36} \\ & = \underline{8,3 + 44,18} \\ & = 52,48 \end{aligned}$$

$$\begin{aligned} & \left(7,1 \times 3,7 - \underline{(-4,5)^2} + 0,7 \right) \div (-0,6) \\ & = \left(\underline{7,1 \times 3,7} - 20,25 + 0,7 \right) \div (-0,6) \\ & = \left(\underline{26,27 - 20,25} + 0,7 \right) \div (-0,6) \\ & = \left(\underline{6,02 + 0,7} \right) \div (-0,6) \\ & = \underline{6,72 \div (-0,6)} \\ & = -11,2 \end{aligned}$$

Order of Operations with Decimals (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(9,7)^2 + 4,3 \times (4,6 \div (-2,3) - 3,9)$$

$$((-8,5) - (-6,6) + (-9,6)) \times 1,8 \div (-0,6)^2$$

$$(1,25 - (0,9)^2 + (-2,8)) \times (3,75 \div (-0,5))$$

$$(8,5 - (-4,2) \times (-2,1) + (0,4)^2) \div (-3,2)$$

$$((-7,2) + 3,5 \times 5,8 - 9,2)^2 \div 4,5$$

$$(2,8)^2 \div (3,1 - (-2,5)) \times ((-5,4) + 1,7)$$

Order of Operations with Decimals (H) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned}(9,7)^2 + 4,3 \times (4,6 \div (-2,3) - 3,9) \\ &= (9,7)^2 + 4,3 \times ((-2) - 3,9) \\ &= \underline{(9,7)^2} + 4,3 \times (-5,9) \\ &= 94,09 + \underline{4,3 \times (-5,9)} \\ &= \underline{94,09 + (-25,37)} \\ &= 68,72\end{aligned}$$

$$\begin{aligned}((-8,5) - (-6,6) + (-9,6)) \times 1,8 \div (-0,6)^2 \\ &= \underline{((-1,9) + (-9,6))} \times 1,8 \div (-0,6)^2 \\ &= (-11,5) \times 1,8 \div \underline{(-0,6)^2} \\ &= \underline{(-11,5) \times 1,8} \div 0,36 \\ &= \underline{(-20,7) \div 0,36} \\ &= -57,5\end{aligned}$$

$$\begin{aligned}(1,25 - \underline{(0,9)^2} + (-2,8)) \times (3,75 \div (-0,5)) \\ &= \underline{(1,25 - 0,81 + (-2,8))} \times (3,75 \div (-0,5)) \\ &= \underline{(0,44 + (-2,8))} \times (3,75 \div (-0,5)) \\ &= (-2,36) \times \underline{(3,75 \div (-0,5))} \\ &= \underline{(-2,36) \times (-7,5)} \\ &= 17,7\end{aligned}$$

$$\begin{aligned}(8,5 - (-4,2) \times (-2,1) + \underline{(0,4)^2}) \div (-3,2) \\ &= (8,5 - \underline{(-4,2) \times (-2,1)} + 0,16) \div (-3,2) \\ &= \underline{(8,5 - 8,82 + 0,16)} \div (-3,2) \\ &= \underline{((-0,32) + 0,16)} \div (-3,2) \\ &= \underline{(-0,16) \div (-3,2)} \\ &= 0,05\end{aligned}$$

$$\begin{aligned}((-7,2) + \underline{3,5 \times 5,8} - 9,2)^2 \div 4,5 \\ &= \underline{((-7,2) + 20,3 - 9,2)}^2 \div 4,5 \\ &= \underline{(13,1 - 9,2)}^2 \div 4,5 \\ &= \underline{(3,9)^2} \div 4,5 \\ &= \underline{15,21 \div 4,5} \\ &= 3,38\end{aligned}$$

$$\begin{aligned}(2,8)^2 \div \underline{(3,1 - (-2,5))} \times ((-5,4) + 1,7) \\ &= (2,8)^2 \div 5,6 \times \underline{((-5,4) + 1,7)} \\ &= \underline{(2,8)^2} \div 5,6 \times (-3,7) \\ &= \underline{7,84 \div 5,6} \times (-3,7) \\ &= \underline{1,4 \times (-3,7)} \\ &= -5,18\end{aligned}$$

Order of Operations with Decimals (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((1,8)^2 \div (-1,8)) \times ((-5,3) - 0,7 + (-7,7))$$

$$(1,6 \div (-0,4)^2 - (-0,7) + (-5,5)) \times (-9,5)$$

$$((-1,8) + (1,8)^2 - (-3,8) \times (-9,6)) \div 0,5$$

$$(((-9,2) + 9,2) \times 0,9)^2 \div 1,1 - (-0,3)$$

$$(8,5)^2 - 4,9 \times ((-6,3) \div (-2,1) + 0,5)$$

$$4,6 + (4,5)^2 \div (5,3 - 8,3) \times (-4,6)$$

Order of Operations with Decimals (I) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left((1,8)^2 \div (-1,8) \right) \times ((-5,3) - 0,7 + (-7,7)) \\ & = \left(3,24 \div (-1,8) \right) \times ((-5,3) - 0,7 + (-7,7)) \\ & = (-1,8) \times \left((-5,3) - 0,7 + (-7,7) \right) \\ & = (-1,8) \times \left((-6) + (-7,7) \right) \\ & = \underline{(-1,8) \times (-13,7)} \\ & = 24,66 \end{aligned}$$

$$\begin{aligned} & \left(1,6 \div (-0,4)^2 - (-0,7) + (-5,5) \right) \times (-9,5) \\ & = \left(1,6 \div 0,16 - (-0,7) + (-5,5) \right) \times (-9,5) \\ & = \left(10 - (-0,7) + (-5,5) \right) \times (-9,5) \\ & = \left(10,7 + (-5,5) \right) \times (-9,5) \\ & = \underline{5,2 \times (-9,5)} \\ & = -49,4 \end{aligned}$$

$$\begin{aligned} & \left((-1,8) + (1,8)^2 - (-3,8) \times (-9,6) \right) \div 0,5 \\ & = \left((-1,8) + 3,24 - (-3,8) \times (-9,6) \right) \div 0,5 \\ & = \left((-1,8) + 3,24 - 36,48 \right) \div 0,5 \\ & = \underline{(1,44 - 36,48) \div 0,5} \\ & = \underline{(-35,04) \div 0,5} \\ & = -70,08 \end{aligned}$$

$$\begin{aligned} & \left(\left((-9,2) + 9,2 \right) \times 0,9 \right)^2 \div 1,1 - (-0,3) \\ & = \left(0 \times 0,9 \right)^2 \div 1,1 - (-0,3) \\ & = 0^2 \div 1,1 - (-0,3) \\ & = \underline{0 \div 1,1} - (-0,3) \\ & = \underline{0 - (-0,3)} \\ & = 0,3 \end{aligned}$$

$$\begin{aligned} & (8,5)^2 - 4,9 \times \left((-6,3) \div (-2,1) + 0,5 \right) \\ & = (8,5)^2 - 4,9 \times (3 + 0,5) \\ & = \underline{(8,5)^2} - 4,9 \times 3,5 \\ & = 72,25 - \underline{4,9 \times 3,5} \\ & = \underline{72,25 - 17,15} \\ & = 55,1 \end{aligned}$$

$$\begin{aligned} & 4,6 + (4,5)^2 \div (5,3 - 8,3) \times (-4,6) \\ & = 4,6 + \underline{(4,5)^2} \div (-3) \times (-4,6) \\ & = 4,6 + \underline{20,25 \div (-3)} \times (-4,6) \\ & = 4,6 + \underline{(-6,75) \times (-4,6)} \\ & = \underline{4,6 + 31,05} \\ & = 35,65 \end{aligned}$$

Order of Operations with Decimals (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(-7,4) \div (-3,7) \times ((5,2)^2 - (-2,9) + (-7,7)) \quad (-8,5) - (-0,6) \times ((-0,3) + (-1,2)^2 \div 3,6)$$

$$4,4 + 8,2 \times ((-2,6)^2 \div 1,3 - (-5,7)) \quad (-8,4) \times ((-1,2) + 0,3) \div ((2,9)^2 - 8,2)$$

$$((-7,2) - 8,9 \times 5,9) \div (-3,5) + (-1,5)^2 \quad (6,9 - (-4,6) \times (-0,4) + (3,8)^2) \div (-6,5)$$

Order of Operations with Decimals (J) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (-7,4) \div (-3,7) \times \left(\underline{(5,2)^2} - (-2,9) + (-7,7) \right) \\ &= (-7,4) \div (-3,7) \times \left(\underline{27,04 - (-2,9)} + (-7,7) \right) \\ &= (-7,4) \div (-3,7) \times \left(\underline{29,94 + (-7,7)} \right) \\ &= \underline{(-7,4) \div (-3,7)} \times 22,24 \\ &= \underline{2 \times 22,24} \\ &= 44,48 \end{aligned}$$

$$\begin{aligned} & (-8,5) - (-0,6) \times \left((-0,3) + \underline{(-1,2)^2} \div 3,6 \right) \\ &= (-8,5) - (-0,6) \times \left((-0,3) + \underline{1,44 \div 3,6} \right) \\ &= (-8,5) - (-0,6) \times \left(\underline{(-0,3) + 0,4} \right) \\ &= (-8,5) - \underline{(-0,6) \times 0,1} \\ &= \underline{(-8,5) - (-0,06)} \\ &= -8,44 \end{aligned}$$

$$\begin{aligned} & 4,4 + 8,2 \times \left(\underline{(-2,6)^2} \div 1,3 - (-5,7) \right) \\ &= 4,4 + 8,2 \times \left(\underline{6,76 \div 1,3} - (-5,7) \right) \\ &= 4,4 + 8,2 \times \left(\underline{5,2 - (-5,7)} \right) \\ &= 4,4 + \underline{8,2 \times 10,9} \\ &= \underline{4,4 + 89,38} \\ &= 93,78 \end{aligned}$$

$$\begin{aligned} & (-8,4) \times \left(\underline{(-1,2) + 0,3} \right) \div \left((2,9)^2 - 8,2 \right) \\ &= (-8,4) \times (-0,9) \div \left(\underline{(2,9)^2} - 8,2 \right) \\ &= (-8,4) \times (-0,9) \div \left(\underline{8,41 - 8,2} \right) \\ &= \underline{(-8,4) \times (-0,9)} \div 0,21 \\ &= \underline{7,56 \div 0,21} \\ &= 36 \end{aligned}$$

$$\begin{aligned} & \left((-7,2) - \underline{8,9 \times 5,9} \right) \div (-3,5) + (-1,5)^2 \\ &= \left(\underline{(-7,2) - 52,51} \right) \div (-3,5) + (-1,5)^2 \\ &= (-59,71) \div (-3,5) + \underline{(-1,5)^2} \\ &= \underline{(-59,71) \div (-3,5)} + 2,25 \\ &= \underline{17,06 + 2,25} \\ &= 19,31 \end{aligned}$$

$$\begin{aligned} & \left(6,9 - (-4,6) \times (-0,4) + \underline{(3,8)^2} \right) \div (-6,5) \\ &= \left(6,9 - \underline{(-4,6) \times (-0,4)} + 14,44 \right) \div (-6,5) \\ &= \left(\underline{6,9 - 1,84} + 14,44 \right) \div (-6,5) \\ &= \left(\underline{5,06 + 14,44} \right) \div (-6,5) \\ &= \underline{19,5 \div (-6,5)} \\ &= -3 \end{aligned}$$