Order of Operations with Decimals (A)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$1.4 \times \left((-9.1) + 7.3 - (2.2)^2 \div (-8.8)\right)$

$(-9.6)^2 + (-5.4) \div 1.8 \times (8.3 - 0.6)$

$5.7 + (-0.9) \div ((-4.3) - (-4.9)) \times (2.4)^2$

$\left((-7.4) \times (-0.1) - (-6.8)^2\right) \div (7.3 + (-4.7))$

$(-2.4)^2 \div (2.5 + 2.2 - 6.3) \times 4.7$

$((-4.2) \times 2.4) \div 1.8 - (-4.8)^2 + 1.4$

Order of Operations with Decimals (A) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$1.4 \times \left((-9.1) + 7.3 - (2.2)^2 \div (-8.8)\right)$

$= 1.4 \times \left((-9.1) + 7.3 - 4.84 \div (-8.8)\right)$

$= 1.4 \times \left((-9.1) + 7.3 - (-0.55)\right)$

$= 1.4 \times \left((-1.8) - (-0.55)\right)$

$= 1.4 \times (-1.25)$

$= -1.75$

$(-9.6)^2 + (-5.4) \div 1.8 \times (8.3 - 0.6)$

$= (-9.6)^2 + (-5.4) \div 1.8 \times 7.7$

$= 92.16 + (-5.4) \div 1.8 \times 7.7$

$= 92.16 + (-3) \times 7.7$

$= 92.16 + (-23.1)$

$= 69.06$

$5.7 + (-0.9) \div \left((-4.3) - (-4.9)\right) \times (2.4)^2$

$= 5.7 + (-0.9) \div 0.6 \times (2.4)^2$

$= 5.7 + (-0.9) \div 0.6 \times 5.76$

$= 5.7 + (-1.5) \times 5.76$

$= 5.7 + (-8.64)$

$= -2.94$

$\left((-7.4) \times (-0.1) - (-6.8)^2\right) \div (7.3 + (-4.7))$

$= \left((-7.4) \times (-0.1) - 46.24\right) \div (7.3 + (-4.7))$

$= (0.74 - 46.24) \div (7.3 + (-4.7))$

$= (-45.5) \div (7.3 + (-4.7))$

$= (-45.5) \div 2.6$

$= -17.5$

$(-2.4)^2 \div (2.5 + 2.2 - 6.3) \times 4.7$

$= (-2.4)^2 \div (4.7 - 6.3) \times 4.7$

$= (-2.4)^2 \div (-1.6) \times 4.7$

$= 5.76 \div (-1.6) \times 4.7$

$= (-3.6) \times 4.7$

$= -16.92$

$\left((-4.2) \times 2.4\right) \div 1.8 - (-4.8)^2 + 1.4$

$= (-10.08) \div 1.8 - (-4.8)^2 + 1.4$

$= (-10.08) \div 1.8 - 23.04 + 1.4$

$= (-5.6) - 23.04 + 1.4$

$= (-28.64) + 1.4$

$= -27.24$

Order of Operations with Decimals (B)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(3.3)^2 \div 5.5 \times (5.4 - (-8.7) + 5.9)$

$\left((2.5)^2 \div (9.1 - 2.2 + 5.6)\right) \times 4.3$

$(-7.7)^2 \div ((-0.5) \times 5.6 + (-2.4) - (-0.3))$

$\left(2.4 + 3.6 \times (-9.4) - (-3.6)^2\right) \div 0.6$

$(((-0.8) + 8.6) \div (-1.3)) \times (-8.6) - (7.6)^2$

$\left((3.6)^2 - 5.1 \div (4.1 + (-6.6))\right) \times (-2.3)$

Order of Operations with Decimals (B) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(3.3)^2 \div 5.5 \times \left(5.4 - (-8.7) + 5.9\right)$

$= (3.3)^2 \div 5.5 \times (14.1 + 5.9)$

$= (3.3)^2 \div 5.5 \times 20$

$= 10.89 \div 5.5 \times 20$

$= 1.98 \times 20$

$= 39.6$

$\left((2.5)^2 \div (9.1 - 2.2 + 5.6)\right) \times 4.3$

$= \left((2.5)^2 \div (6.9 + 5.6)\right) \times 4.3$

$= \left((2.5)^2 \div 12.5\right) \times 4.3$

$= (6.25 \div 12.5) \times 4.3$

$= 0.5 \times 4.3$

$= 2.15$

$(-7.7)^2 \div \left((-0.5) \times 5.6 + (-2.4) - (-0.3)\right)$

$= (-7.7)^2 \div \left((-2.8) + (-2.4) - (-0.3)\right)$

$= (-7.7)^2 \div \left((-5.2) - (-0.3)\right)$

$= (-7.7)^2 \div (-4.9)$

$= 59.29 \div (-4.9)$

$= -12.1$

$\left(2.4 + 3.6 \times (-9.4) - (-3.6)^2\right) \div 0.6$

$= \left(2.4 + 3.6 \times (-9.4) - 12.96\right) \div 0.6$

$= \left(2.4 + (-33.84) - 12.96\right) \div 0.6$

$= \left((-31.44) - 12.96\right) \div 0.6$

$= (-44.4) \div 0.6$

$= -74$

$\left(\left((-0.8) + 8.6\right) \div (-1.3)\right) \times (-8.6) - (7.6)^2$

$= \left(7.8 \div (-1.3)\right) \times (-8.6) - (7.6)^2$

$= (-6) \times (-8.6) - (7.6)^2$

$= (-6) \times (-8.6) - 57.76$

$= 51.6 - 57.76$

$= -6.16$

$\left((3.6)^2 - 5.1 \div \left(4.1 + (-6.6)\right)\right) \times (-2.3)$

$= \left((3.6)^2 - 5.1 \div (-2.5)\right) \times (-2.3)$

$= \left(12.96 - 5.1 \div (-2.5)\right) \times (-2.3)$

$= \left(12.96 - (-2.04)\right) \times (-2.3)$

$= 15 \times (-2.3)$

$= -34.5$

Order of Operations with Decimals (C)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(-5.7) \times \left(2.9 - 2.3 + (-2.8)^2 \div (-1.6)\right)$

$2.2 \times ((-2.7) + 7.9 - 8.7)^2 \div 1.4$

$\left((-8.8) \div 8.8 - (-6.6)^2\right) \times (5.3 + (-4.8))$

$(0.4 \times (-1.5)) \div (-0.5) + 7.8 - (6.2)^2$

$((-5.1) \div (-0.6)) \times 1.5 - 1.4 + (-0.7)^2$

$\left(6.2 \times 8.7 + 6.6 - (1.3)^2\right) \div (-2.5)$

Order of Operations with Decimals (C) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(-5.7) \times \left(2.9 - 2.3 + (-2.8)^2 \div (-1.6)\right)$

$= (-5.7) \times \left(2.9 - 2.3 + 7.84 \div (-1.6)\right)$

$= (-5.7) \times \left(2.9 - 2.3 + (-4.9)\right)$

$= (-5.7) \times \left(0.6 + (-4.9)\right)$

$= (-5.7) \times (-4.3)$

$= 24.51$

$2.2 \times \left((-2.7) + 7.9 - 8.7\right)^2 \div 1.4$

$= 2.2 \times (5.2 - 8.7)^2 \div 1.4$

$= 2.2 \times (-3.5)^2 \div 1.4$

$= 2.2 \times 12.25 \div 1.4$

$= 26.95 \div 1.4$

$= 19.25$

$\left((-8.8) \div 8.8 - (-6.6)^2\right) \times (5.3 + (-4.8))$

$= \left((-8.8) \div 8.8 - 43.56\right) \times (5.3 + (-4.8))$

$= \left((-1) - 43.56\right) \times (5.3 + (-4.8))$

$= (-44.56) \times \left(5.3 + (-4.8)\right)$

$= (-44.56) \times 0.5$

$= -22.28$

$\left(0.4 \times (-1.5)\right) \div (-0.5) + 7.8 - (6.2)^2$

$= (-0.6) \div (-0.5) + 7.8 - (6.2)^2$

$= (-0.6) \div (-0.5) + 7.8 - 38.44$

$= 1.2 + 7.8 - 38.44$

$= 9 - 38.44$

$= -29.44$

$\left((-5.1) \div (-0.6)\right) \times 1.5 - 1.4 + (-0.7)^2$

$= 8.5 \times 1.5 - 1.4 + (-0.7)^2$

$= 8.5 \times 1.5 - 1.4 + 0.49$

$= 12.75 - 1.4 + 0.49$

$= 11.35 + 0.49$

$= 11.84$

$\left(6.2 \times 8.7 + 6.6 - (1.3)^2\right) \div (-2.5)$

$= (6.2 \times 8.7 + 6.6 - 1.69) \div (-2.5)$

$= (53.94 + 6.6 - 1.69) \div (-2.5)$

$= (60.54 - 1.69) \div (-2.5)$

$= 58.85 \div (-2.5)$

$= -23.54$

Order of Operations with Decimals (D)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((-2.5) + (0.9)^2 - 3.2\right) \div ((-0.5) \times (-0.4))$

$(7.6 \div ((-7.2) + 8.8)) \times (4.2)^2 - 0.3$

$((-6.9) + (-4.1)) \div (-0.4)^2 - 2.7 \times 6.8$

$1.25 \div (0.5)^2 \times (5.3 - 6.8 + (-8.7))$

$(-3.1)^2 - 6.8 \times ((-5.7) \div (-0.4) + (-8.7))$

$(-0.8) \div \left((-0.2)^2 - (-7.8) \times (-0.3) + 0.7\right)$

Order of Operations with Decimals (D) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((-2.5) + (0.9)^2 - 3.2\right) \div ((-0.5) \times (-0.4))$

$= \left((-2.5) + 0.81 - 3.2\right) \div ((-0.5) \times (-0.4))$

$= \left((-1.69) - 3.2\right) \div ((-0.5) \times (-0.4))$

$= (-4.89) \div \left((-0.5) \times (-0.4)\right)$

$= (-4.89) \div 0.2$

$= -24.45$

$\left(7.6 \div \left((-7.2) + 8.8\right)\right) \times (4.2)^2 - 0.3$

$= (7.6 \div 1.6) \times (4.2)^2 - 0.3$

$= 4.75 \times (4.2)^2 - 0.3$

$= 4.75 \times 17.64 - 0.3$

$= 83.79 - 0.3$

$= 83.49$

$\left((-6.9) + (-4.1)\right) \div (-0.4)^2 - 2.7 \times 6.8$

$= (-11) \div (-0.4)^2 - 2.7 \times 6.8$

$= (-11) \div 0.16 - 2.7 \times 6.8$

$= (-68.75) - 2.7 \times 6.8$

$= (-68.75) - 18.36$

$= -87.11$

$1.25 \div (0.5)^2 \times \left(5.3 - 6.8 + (-8.7)\right)$

$= 1.25 \div (0.5)^2 \times \left((-1.5) + (-8.7)\right)$

$= 1.25 \div (0.5)^2 \times (-10.2)$

$= 1.25 \div 0.25 \times (-10.2)$

$= 5 \times (-10.2)$

$= -51$

$(-3.1)^2 - 6.8 \times \left((-5.7) \div (-0.4) + (-8.7)\right)$

$= (-3.1)^2 - 6.8 \times \left(14.25 + (-8.7)\right)$

$= (-3.1)^2 - 6.8 \times 5.55$

$= 9.61 - 6.8 \times 5.55$

$= 9.61 - 37.74$

$= -28.13$

$(-0.8) \div \left((-0.2)^2 - (-7.8) \times (-0.3) + 0.7\right)$

$= (-0.8) \div \left(0.04 - (-7.8) \times (-0.3) + 0.7\right)$

$= (-0.8) \div \left(0.04 - 2.34 + 0.7\right)$

$= (-0.8) \div \left((-2.3) + 0.7\right)$

$= (-0.8) \div (-1.6)$

$= 0.5$

Order of Operations with Decimals (E)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(0.5 - (-8.7) \times (-8.3)) \div \left((0.6)^2 + (-4.4)\right)$

$9.9 + (-7.5) \times \left((-3.5) \div 0.7 - (0.4)^2\right)$

$1.8 \div 2.4 \times \left(7.1 - (1.6)^2 + (-3.1)\right)$

$\left((1.8)^2 \div 7.2 + (-6.8) - (-7.2)\right) \times (-4.6)$

$((-4.1) - (-7.1)) \div (0.4)^2 + 4.7 \times 5.3$

$(-7.5)^2 \times ((-6.6) \div (8.3 - (-4.9) + (-8.2)))$

Order of Operations with Decimals (E) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(0.5 - (-8.7) \times (-8.3)) \div ((0.6)^2 + (-4.4))$

$= (0.5 - 72.21) \div ((0.6)^2 + (-4.4))$

$= (-71.71) \div ((0.6)^2 + (-4.4))$

$= (-71.71) \div (0.36 + (-4.4))$

$= (-71.71) \div (-4.04)$

$= 17.75$

$9.9 + (-7.5) \times ((-3.5) \div 0.7 - (0.4)^2)$

$= 9.9 + (-7.5) \times ((-3.5) \div 0.7 - 0.16)$

$= 9.9 + (-7.5) \times ((-5) - 0.16)$

$= 9.9 + (-7.5) \times (-5.16)$

$= 9.9 + 38.7$

$= 48.6$

$1.8 \div 2.4 \times (7.1 - (1.6)^2 + (-3.1))$

$= 1.8 \div 2.4 \times (7.1 - 2.56 + (-3.1))$

$= 1.8 \div 2.4 \times (4.54 + (-3.1))$

$= 1.8 \div 2.4 \times 1.44$

$= 0.75 \times 1.44$

$= 1.08$

$((1.8)^2 \div 7.2 + (-6.8) - (-7.2)) \times (-4.6)$

$= (3.24 \div 7.2 + (-6.8) - (-7.2)) \times (-4.6)$

$= (0.45 + (-6.8) - (-7.2)) \times (-4.6)$

$= ((-6.35) - (-7.2)) \times (-4.6)$

$= 0.85 \times (-4.6)$

$= -3.91$

$((-4.1) - (-7.1)) \div (0.4)^2 + 4.7 \times 5.3$

$= 3 \div (0.4)^2 + 4.7 \times 5.3$

$= 3 \div 0.16 + 4.7 \times 5.3$

$= 18.75 + 4.7 \times 5.3$

$= 18.75 + 24.91$

$= 43.66$

$(-7.5)^2 \times ((-6.6) \div (8.3 - (-4.9) + (-8.2)))$

$= (-7.5)^2 \times ((-6.6) \div (13.2 + (-8.2)))$

$= (-7.5)^2 \times ((-6.6) \div 5)$

$= (-7.5)^2 \times (-1.32)$

$= 56.25 \times (-1.32)$

$= -74.25$

Order of Operations with Decimals (F)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((8.3)^2 \div (-8.3) - 8.5\right) \times ((-5.8) + 2.6)$

$\left(9.8 - 5.7 \times 4.6 + (8.2)^2\right) \div (-5.5)$

$(2.4 \times (-6.9)) \div (-1.6) + (-5.6) - (-3.3)^2$

$(2.1 \times (-4.1) + (-0.2) - 8.3) \div (0.5)^2$

$(-0.3)^2 + 2.4 \times (3.8 - 1.25) \div (-5.1)$

$\left((6.8)^2 \div 3.4\right) \times (0.5 + 3.3 - 5.1)$

Order of Operations with Decimals (F) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((8.3)^2 \div (-8.3) - 8.5\right) \times ((-5.8) + 2.6)$

$= \left(68.89 \div (-8.3) - 8.5\right) \times ((-5.8) + 2.6)$

$= \left((-8.3) - 8.5\right) \times ((-5.8) + 2.6)$

$= (-16.8) \times \left((-5.8) + 2.6\right)$

$= (-16.8) \times (-3.2)$

$= 53.76$

$\left(9.8 - 5.7 \times 4.6 + (8.2)^2\right) \div (-5.5)$

$= (9.8 - 5.7 \times 4.6 + 67.24) \div (-5.5)$

$= (9.8 - 26.22 + 67.24) \div (-5.5)$

$= \left((-16.42) + 67.24\right) \div (-5.5)$

$= 50.82 \div (-5.5)$

$= -9.24$

$\left(2.4 \times (-6.9)\right) \div (-1.6) + (-5.6) - (-3.3)^2$

$= (-16.56) \div (-1.6) + (-5.6) - (-3.3)^2$

$= (-16.56) \div (-1.6) + (-5.6) - 10.89$

$= 10.35 + (-5.6) - 10.89$

$= 4.75 - 10.89$

$= -6.14$

$\left(2.1 \times (-4.1) + (-0.2) - 8.3\right) \div (0.5)^2$

$= \left((-8.61) + (-0.2) - 8.3\right) \div (0.5)^2$

$= \left((-8.81) - 8.3\right) \div (0.5)^2$

$= (-17.11) \div (0.5)^2$

$= (-17.11) \div 0.25$

$= -68.44$

$(-0.3)^2 + 2.4 \times (3.8 - 1.25) \div (-5.1)$

$= (-0.3)^2 + 2.4 \times 2.55 \div (-5.1)$

$= 0.09 + 2.4 \times 2.55 \div (-5.1)$

$= 0.09 + 6.12 \div (-5.1)$

$= 0.09 + (-1.2)$

$= -1.11$

$\left((6.8)^2 \div 3.4\right) \times (0.5 + 3.3 - 5.1)$

$= (46.24 \div 3.4) \times (0.5 + 3.3 - 5.1)$

$= 13.6 \times (0.5 + 3.3 - 5.1)$

$= 13.6 \times (3.8 - 5.1)$

$= 13.6 \times (-1.3)$

$= -17.68$

Order of Operations with Decimals (G)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$((-9.8) - (-7.8) + 8.6)^2 \div (1.1 \times 4.5)$

$((-5.2) \div (-0.4)) \times 2.3 + 2.7 - (-0.9)^2$

$((-3.4) + (-7.9)) \times (-3.7) \div 7.4 - (-2.8)^2$

$\left((-0.7) \times (-0.3) - (1.9)^2\right) \div 0.8 + 7.2$

$8.3 + (-1.1) \div (-2.2) \times ((-3.1) - 6.3)^2$

$\left(7.1 \times 3.7 - (-4.5)^2 + 0.7\right) \div (-0.6)$

Order of Operations with Decimals (G) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((-9.8)-(-7.8)+8.6\right)^2 \div (1.1 \times 4.5)$

$= \left((-2)+8.6\right)^2 \div (1.1 \times 4.5)$

$= (6.6)^2 \div (1.1 \times 4.5)$

$= (6.6)^2 \div 4.95$

$= 43.56 \div 4.95$

$= 8.8$

$\left((-5.2) \div (-0.4)\right) \times 2.3 + 2.7 - (-0.9)^2$

$= 13 \times 2.3 + 2.7 - (-0.9)^2$

$= 13 \times 2.3 + 2.7 - 0.81$

$= 29.9 + 2.7 - 0.81$

$= 32.6 - 0.81$

$= 31.79$

$\left((-3.4)+(-7.9)\right) \times (-3.7) \div 7.4 - (-2.8)^2$

$= (-11.3) \times (-3.7) \div 7.4 - (-2.8)^2$

$= (-11.3) \times (-3.7) \div 7.4 - 7.84$

$= 41.81 \div 7.4 - 7.84$

$= 5.65 - 7.84$

$= -2.19$

$\left((-0.7) \times (-0.3) - (1.9)^2\right) \div 0.8 + 7.2$

$= \left((-0.7) \times (-0.3) - 3.61\right) \div 0.8 + 7.2$

$= (0.21 - 3.61) \div 0.8 + 7.2$

$= (-3.4) \div 0.8 + 7.2$

$= (-4.25) + 7.2$

$= 2.95$

$8.3 + (-1.1) \div (-2.2) \times \left((-3.1)-6.3\right)^2$

$= 8.3 + (-1.1) \div (-2.2) \times (-9.4)^2$

$= 8.3 + (-1.1) \div (-2.2) \times 88.36$

$= 8.3 + 0.5 \times 88.36$

$= 8.3 + 44.18$

$= 52.48$

$\left(7.1 \times 3.7 - (-4.5)^2 + 0.7\right) \div (-0.6)$

$= (7.1 \times 3.7 - 20.25 + 0.7) \div (-0.6)$

$= (26.27 - 20.25 + 0.7) \div (-0.6)$

$= (6.02 + 0.7) \div (-0.6)$

$= 6.72 \div (-0.6)$

$= -11.2$

Order of Operations with Decimals (H)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(9.7)^2 + 4.3 \times (4.6 \div (-2.3) - 3.9)$

$((-8.5) - (-6.6) + (-9.6)) \times 1.8 \div (-0.6)^2$

$\left(1.25 - (0.9)^2 + (-2.8)\right) \times (3.75 \div (-0.5))$

$\left(8.5 - (-4.2) \times (-2.1) + (0.4)^2\right) \div (-3.2)$

$((-7.2) + 3.5 \times 5.8 - 9.2)^2 \div 4.5$

$(2.8)^2 \div (3.1 - (-2.5)) \times ((-5.4) + 1.7)$

Order of Operations with Decimals (H) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(9.7)^2 + 4.3 \times (4.6 \div (-2.3) - 3.9)$

$= (9.7)^2 + 4.3 \times ((-2) - 3.9)$

$= (9.7)^2 + 4.3 \times (-5.9)$

$= 94.09 + 4.3 \times (-5.9)$

$= 94.09 + (-25.37)$

$= 68.72$

$((-8.5) - (-6.6) + (-9.6)) \times 1.8 \div (-0.6)^2$

$= ((-1.9) + (-9.6)) \times 1.8 \div (-0.6)^2$

$= (-11.5) \times 1.8 \div (-0.6)^2$

$= (-11.5) \times 1.8 \div 0.36$

$= (-20.7) \div 0.36$

$= -57.5$

$(1.25 - (0.9)^2 + (-2.8)) \times (3.75 \div (-0.5))$

$= (1.25 - 0.81 + (-2.8)) \times (3.75 \div (-0.5))$

$= (0.44 + (-2.8)) \times (3.75 \div (-0.5))$

$= (-2.36) \times (3.75 \div (-0.5))$

$= (-2.36) \times (-7.5)$

$= 17.7$

$(8.5 - (-4.2) \times (-2.1) + (0.4)^2) \div (-3.2)$

$= (8.5 - (-4.2) \times (-2.1) + 0.16) \div (-3.2)$

$= (8.5 - 8.82 + 0.16) \div (-3.2)$

$= ((-0.32) + 0.16) \div (-3.2)$

$= (-0.16) \div (-3.2)$

$= 0.05$

$((-7.2) + 3.5 \times 5.8 - 9.2)^2 \div 4.5$

$= ((-7.2) + 20.3 - 9.2)^2 \div 4.5$

$= (13.1 - 9.2)^2 \div 4.5$

$= (3.9)^2 \div 4.5$

$= 15.21 \div 4.5$

$= 3.38$

$(2.8)^2 \div (3.1 - (-2.5)) \times ((-5.4) + 1.7)$

$= (2.8)^2 \div 5.6 \times ((-5.4) + 1.7)$

$= (2.8)^2 \div 5.6 \times (-3.7)$

$= 7.84 \div 5.6 \times (-3.7)$

$= 1.4 \times (-3.7)$

$= -5.18$

Order of Operations with Decimals (I)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((1.8)^2 \div (-1.8)\right) \times ((-5.3) - 0.7 + (-7.7))$

$\left(1.6 \div (-0.4)^2 - (-0.7) + (-5.5)\right) \times (-9.5)$

$\left((-1.8) + (1.8)^2 - (-3.8) \times (-9.6)\right) \div 0.5$

$(((-9.2) + 9.2) \times 0.9)^2 \div 1.1 - (-0.3)$

$(8.5)^2 - 4.9 \times ((-6.3) \div (-2.1) + 0.5)$

$4.6 + (4.5)^2 \div (5.3 - 8.3) \times (-4.6)$

Order of Operations with Decimals (I) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((1.8)^2 \div (-1.8)\right) \times ((-5.3) - 0.7 + (-7.7))$

$= \left(3.24 \div (-1.8)\right) \times ((-5.3) - 0.7 + (-7.7))$

$= (-1.8) \times \left((-5.3) - 0.7 + (-7.7)\right)$

$= (-1.8) \times \left((-6) + (-7.7)\right)$

$= (-1.8) \times (-13.7)$

$= 24.66$

$\left(1.6 \div (-0.4)^2 - (-0.7) + (-5.5)\right) \times (-9.5)$

$= \left(1.6 \div 0.16 - (-0.7) + (-5.5)\right) \times (-9.5)$

$= \left(10 - (-0.7) + (-5.5)\right) \times (-9.5)$

$= \left(10.7 + (-5.5)\right) \times (-9.5)$

$= 5.2 \times (-9.5)$

$= -49.4$

$\left((-1.8) + (1.8)^2 - (-3.8) \times (-9.6)\right) \div 0.5$

$= \left((-1.8) + 3.24 - (-3.8) \times (-9.6)\right) \div 0.5$

$= \left((-1.8) + 3.24 - 36.48\right) \div 0.5$

$= (1.44 - 36.48) \div 0.5$

$= (-35.04) \div 0.5$

$= -70.08$

$\left(\left((-9.2) + 9.2\right) \times 0.9\right)^2 \div 1.1 - (-0.3)$

$= (0 \times 0.9)^2 \div 1.1 - (-0.3)$

$= 0^2 \div 1.1 - (-0.3)$

$= 0 \div 1.1 - (-0.3)$

$= 0 - (-0.3)$

$= 0.3$

$(8.5)^2 - 4.9 \times \left((-6.3) \div (-2.1) + 0.5\right)$

$= (8.5)^2 - 4.9 \times (3 + 0.5)$

$= (8.5)^2 - 4.9 \times 3.5$

$= 72.25 - 4.9 \times 3.5$

$= 72.25 - 17.15$

$= 55.1$

$4.6 + (4.5)^2 \div (5.3 - 8.3) \times (-4.6)$

$= 4.6 + (4.5)^2 \div (-3) \times (-4.6)$

$= 4.6 + 20.25 \div (-3) \times (-4.6)$

$= 4.6 + (-6.75) \times (-4.6)$

$= 4.6 + 31.05$

$= 35.65$

Order of Operations with Decimals (J)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(-7.4) \div (-3.7) \times \left((5.2)^2 - (-2.9) + (-7.7)\right)$

$(-8.5) - (-0.6) \times \left((-0.3) + (-1.2)^2 \div 3.6\right)$

$4.4 + 8.2 \times \left((-2.6)^2 \div 1.3 - (-5.7)\right)$

$(-8.4) \times ((-1.2) + 0.3) \div \left((2.9)^2 - 8.2\right)$

$((-7.2) - 8.9 \times 5.9) \div (-3.5) + (-1.5)^2$

$\left(6.9 - (-4.6) \times (-0.4) + (3.8)^2\right) \div (-6.5)$

Order of Operations with Decimals (J) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(-7.4) \div (-3.7) \times \left((5.2)^2 - (-2.9) + (-7.7)\right)$

$= (-7.4) \div (-3.7) \times \left(27.04 - (-2.9) + (-7.7)\right)$

$= (-7.4) \div (-3.7) \times \left(29.94 + (-7.7)\right)$

$= (-7.4) \div (-3.7) \times 22.24$

$= 2 \times 22.24$

$= 44.48$

$(-8.5) - (-0.6) \times \left((-0.3) + (-1.2)^2 \div 3.6\right)$

$= (-8.5) - (-0.6) \times \left((-0.3) + 1.44 \div 3.6\right)$

$= (-8.5) - (-0.6) \times \left((-0.3) + 0.4\right)$

$= (-8.5) - (-0.6) \times 0.1$

$= (-8.5) - (-0.06)$

$= -8.44$

$4.4 + 8.2 \times \left((-2.6)^2 \div 1.3 - (-5.7)\right)$

$= 4.4 + 8.2 \times \left(6.76 \div 1.3 - (-5.7)\right)$

$= 4.4 + 8.2 \times \left(5.2 - (-5.7)\right)$

$= 4.4 + 8.2 \times 10.9$

$= 4.4 + 89.38$

$= 93.78$

$(-8.4) \times \left((-1.2) + 0.3\right) \div \left((2.9)^2 - 8.2\right)$

$= (-8.4) \times (-0.9) \div \left((2.9)^2 - 8.2\right)$

$= (-8.4) \times (-0.9) \div (8.41 - 8.2)$

$= (-8.4) \times (-0.9) \div 0.21$

$= 7.56 \div 0.21$

$= 36$

$\left((-7.2) - 8.9 \times 5.9\right) \div (-3.5) + (-1.5)^2$

$= \left((-7.2) - 52.51\right) \div (-3.5) + (-1.5)^2$

$= (-59.71) \div (-3.5) + (-1.5)^2$

$= (-59.71) \div (-3.5) + 2.25$

$= 17.06 + 2.25$

$= 19.31$

$\left(6.9 - (-4.6) \times (-0.4) + (3.8)^2\right) \div (-6.5)$

$= \left(6.9 - (-4.6) \times (-0.4) + 14.44\right) \div (-6.5)$

$= \left(6.9 - 1.84 + 14.44\right) \div (-6.5)$

$= \left(5.06 + 14.44\right) \div (-6.5)$

$= 19.5 \div (-6.5)$

$= -3$