Order of Operations with Decimals (A)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$0.75 \times 3.2 + (9.1)^2 \div ((-2.3) - (-0.9))^2$

$\left((-5.4)^2 \div 3.6\right) \times 3.1 - (-2.2)^2 + (-3.2)$

$(((-8.9) + (-3.9)) \div 3.2) \times (-3.2) - 7.3 + (-4.6)^2$

Order of Operations with Decimals (A) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$0.75 \times 3.2 + (9.1)^2 \div \left((-2.3) - (-0.9)\right)^2$

$= 0.75 \times 3.2 + (9.1)^2 \div (-1.4)^2$

$= 0.75 \times 3.2 + 82.81 \div (-1.4)^2$

$= 0.75 \times 3.2 + 82.81 \div 1.96$

$= 2.4 + 82.81 \div 1.96$

$= 2.4 + 42.25$

$= 44.65$

$\left((-5.4)^2 \div 3.6\right) \times 3.1 - (-2.2)^2 + (-3.2)$

$= (29.16 \div 3.6) \times 3.1 - (-2.2)^2 + (-3.2)$

$= 8.1 \times 3.1 - (-2.2)^2 + (-3.2)$

$= 8.1 \times 3.1 - 4.84 + (-3.2)$

$= 25.11 - 4.84 + (-3.2)$

$= 20.27 + (-3.2)$

$= 17.07$

$\left(\left((-8.9) + (-3.9)\right) \div 3.2\right) \times (-3.2) - 7.3 + (-4.6)^2$

$= \left((-12.8) \div 3.2\right) \times (-3.2) - 7.3 + (-4.6)^2$

$= (-4) \times (-3.2) - 7.3 + (-4.6)^2$

$= (-4) \times (-3.2) - 7.3 + 21.16$

$= 12.8 - 7.3 + 21.16$

$= 5.5 + 21.16$

$= 26.66$

Order of Operations with Decimals (B)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(2.5)^2 - (-5.6) \times ((-0.6) + 6.3 \div (2.1 \times (-1.2)))$

$(-2.1)^2 - 8.6 \times (-2.9) + (-1.8) \div (1.4 \div 3.5)$

$(6.6)^2 \div 1.1 + 7.3 - 1.4 \times ((-2.2) - (-3.6))$

Order of Operations with Decimals (B) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(2.5)^2 - (-5.6) \times \left((-0.6) + 6.3 \div \left(\underline{2.1 \times (-1.2)}\right)\right)$

$= (2.5)^2 - (-5.6) \times \left((-0.6) + \underline{6.3 \div (-2.52)}\right)$

$= (2.5)^2 - (-5.6) \times \left(\underline{(-0.6) + (-2.5)}\right)$

$= \underline{(2.5)^2} - (-5.6) \times (-3.1)$

$= 6.25 - \underline{(-5.6) \times (-3.1)}$

$= \underline{6.25 - 17.36}$

$= -11.11$

$(-2.1)^2 - 8.6 \times (-2.9) + (-1.8) \div (\underline{1.4 \div 3.5})$

$= \underline{(-2.1)^2} - 8.6 \times (-2.9) + (-1.8) \div 0.4$

$= 4.41 - \underline{8.6 \times (-2.9)} + (-1.8) \div 0.4$

$= 4.41 - (-24.94) + \underline{(-1.8) \div 0.4}$

$= \underline{4.41 - (-24.94)} + (-4.5)$

$= \underline{29.35 + (-4.5)}$

$= 24.85$

$(6.6)^2 \div 1.1 + 7.3 - 1.4 \times \left(\underline{(-2.2) - (-3.6)}\right)$

$= \underline{(6.6)^2} \div 1.1 + 7.3 - 1.4 \times 1.4$

$= \underline{43.56 \div 1.1} + 7.3 - 1.4 \times 1.4$

$= 39.6 + 7.3 - \underline{1.4 \times 1.4}$

$= \underline{39.6 + 7.3} - 1.96$

$= \underline{46.9 - 1.96}$

$= 44.94$

Order of Operations with Decimals (C)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$0.7 + (-8.8) \div 2.2 \times \left((-8.7)^2 - (8.7)^2\right)$

$(9.9 - 1.8 \times 5.5)^3 \div 1.6 + (-4.4) + 7.4$

$5.7 - (-7.1)^2 + (-1.6)^2 \times ((-5.5) \div (-0.2))$

Order of Operations with Decimals (C) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$0.7 + (-8.8) \div 2.2 \times \left((-8.7)^2 - (8.7)^2\right)$

$= 0.7 + (-8.8) \div 2.2 \times \left(75.69 - (8.7)^2\right)$

$= 0.7 + (-8.8) \div 2.2 \times (75.69 - 75.69)$

$= 0.7 + (-8.8) \div 2.2 \times 0$

$= 0.7 + (-4) \times 0$

$= 0.7 + 0$

$= 0.7$

$(9.9 - 1.8 \times 5.5)^3 \div 1.6 + (-4.4) + 7.4$

$= (9.9 - 9.9)^3 \div 1.6 + (-4.4) + 7.4$

$= 0^3 \div 1.6 + (-4.4) + 7.4$

$= 0 \div 1.6 + (-4.4) + 7.4$

$= 0 + (-4.4) + 7.4$

$= (-4.4) + 7.4$

$= 3$

$5.7 - (-7.1)^2 + (-1.6)^2 \times \left((-5.5) \div (-0.2)\right)$

$= 5.7 - (-7.1)^2 + (-1.6)^2 \times 27.5$

$= 5.7 - 50.41 + (-1.6)^2 \times 27.5$

$= 5.7 - 50.41 + 2.56 \times 27.5$

$= 5.7 - 50.41 + 70.4$

$= (-44.71) + 70.4$

$= 25.69$

Order of Operations with Decimals (D)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$((-3.4) \div (-8.5)) \times (-5.5) + (9.5)^2 - (2.4)^2$

$(2.4)^2 \div ((-0.2) - 2.2) \times (-8.4) + 5.8 \times (-2.7)$

$3.2 + 4.4 - (0.2)^2 \times (2.1 \div (-2.1))^3$

Order of Operations with Decimals (D) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left((-3.4) \div (-8.5)\right) \times (-5.5) + (9.5)^2 - (2.4)^2$

$= 0.4 \times (-5.5) + (9.5)^2 - (2.4)^2$

$= 0.4 \times (-5.5) + 90.25 - (2.4)^2$

$= 0.4 \times (-5.5) + 90.25 - 5.76$

$= (-2.2) + 90.25 - 5.76$

$= 88.05 - 5.76$

$= 82.29$

$(2.4)^2 \div \left((-0.2) - 2.2\right) \times (-8.4) + 5.8 \times (-2.7)$

$= (2.4)^2 \div (-2.4) \times (-8.4) + 5.8 \times (-2.7)$

$= 5.76 \div (-2.4) \times (-8.4) + 5.8 \times (-2.7)$

$= (-2.4) \times (-8.4) + 5.8 \times (-2.7)$

$= 20.16 + 5.8 \times (-2.7)$

$= 20.16 + (-15.66)$

$= 4.5$

$3.2 + 4.4 - (0.2)^2 \times \left(2.1 \div (-2.1)\right)^3$

$= 3.2 + 4.4 - (0.2)^2 \times (-1)^3$

$= 3.2 + 4.4 - 0.04 \times (-1)^3$

$= 3.2 + 4.4 - 0.04 \times (-1)$

$= 3.2 + 4.4 - (-0.04)$

$= 7.6 - (-0.04)$

$= 7.64$

Order of Operations with Decimals (E)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left((-8.9)^2 \times (8.3 - 4.4 + (-3.9))\right)^3 \div 7.2$

$(((-8.6) + 7.4) \times 6.8) \div (0.8)^2 - (7.2)^2$

$8.3 + (2.5)^2 - (-8.9) \div (0.2 \times 2.5 \times (-0.5))$

Order of Operations with Decimals (E) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left((-8.9)^2 \times (8.3 - 4.4 + (-3.9))\right)^3 \div 7.2$

$= \left((-8.9)^2 \times \left(3.9 + (-3.9)\right)\right)^3 \div 7.2$

$= \left((-8.9)^2 \times 0\right)^3 \div 7.2$

$= (79.21 \times 0)^3 \div 7.2$

$= 0^3 \div 7.2$

$= 0 \div 7.2$

$= 0$

$\left(\left((-8.6) + 7.4\right) \times 6.8\right) \div (0.8)^2 - (7.2)^2$

$= \left((-1.2) \times 6.8\right) \div (0.8)^2 - (7.2)^2$

$= (-8.16) \div (0.8)^2 - (7.2)^2$

$= (-8.16) \div 0.64 - (7.2)^2$

$= (-8.16) \div 0.64 - 51.84$

$= (-12.75) - 51.84$

$= -64.59$

$8.3 + (2.5)^2 - (-8.9) \div (0.2 \times 2.5 \times (-0.5))$

$= 8.3 + (2.5)^2 - (-8.9) \div \left(0.5 \times (-0.5)\right)$

$= 8.3 + (2.5)^2 - (-8.9) \div (-0.25)$

$= 8.3 + 6.25 - (-8.9) \div (-0.25)$

$= 8.3 + 6.25 - 35.6$

$= 14.55 - 35.6$

$= -21.05$

Order of Operations with Decimals (F)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$2.8 \div (-2.8) \times \Big((-5.3)^2 - (-0.8) + 8.8 - (-0.9)\Big)$

$8.3 \times \Big(((-7.5) - 0.5) \div (5.8 + (-7.8))^3\Big)^2$

$(5.6)^2 \div (-6.4) + (-4.5) \times (((-1.4) - (-0.4)) \times 3.8)$

Order of Operations with Decimals (F) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$2.8 \div (-2.8) \times \left(\underline{(-5.3)^2} - (-0.8) + 8.8 - (-0.9) \right)$

$= 2.8 \div (-2.8) \times \left(\underline{28.09 - (-0.8)} + 8.8 - (-0.9) \right)$

$= 2.8 \div (-2.8) \times (\underline{28.89 + 8.8} - (-0.9))$

$= 2.8 \div (-2.8) \times \left(\underline{37.69 - (-0.9)} \right)$

$= \underline{2.8 \div (-2.8)} \times 38.59$

$= \underline{(-1) \times 38.59}$

$= -38.59$

$8.3 \times \left(\left(\underline{(-7.5) - 0.5} \right) \div (5.8 + (-7.8))^3 \right)^2$

$= 8.3 \times \left((-8) \div \left(\underline{5.8 + (-7.8)} \right)^3 \right)^2$

$= 8.3 \times \left((-8) \div \underline{(-2)^3} \right)^2$

$= 8.3 \times \left(\underline{(-8) \div (-8)} \right)^2$

$= 8.3 \times \underline{1^2}$

$= \underline{8.3 \times 1}$

$= 8.3$

$(5.6)^2 \div (-6.4) + (-4.5) \times \left(\left(\underline{(-1.4) - (-0.4)} \right) \times 3.8 \right)$

$= (5.6)^2 \div (-6.4) + (-4.5) \times \left(\underline{(-1) \times 3.8} \right)$

$= \underline{(5.6)^2} \div (-6.4) + (-4.5) \times (-3.8)$

$= \underline{31.36 \div (-6.4)} + (-4.5) \times (-3.8)$

$= (-4.9) + \underline{(-4.5) \times (-3.8)}$

$= \underline{(-4.9) + 17.1}$

$= 12.2$

Order of Operations with Decimals (G)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left((-7.5) \times (2.8)^2\right) \div 1.25 + 6.4 - 9.6 - (-2.5)$

$\left((1.8)^2 \div (-1.8)\right) \times (-9.1) - (6.3)^2 + 4.3$

$((-2.1) + 2.1) \div 8.8 \times (7.3)^2 - (-2.2)^2$

Order of Operations with Decimals (G) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left((-7.5) \times (2.8)^2\right) \div 1.25 + 6.4 - 9.6 - (-2.5)$

$= \left((-7.5) \times 7.84\right) \div 1.25 + 6.4 - 9.6 - (-2.5)$

$= (-58.8) \div 1.25 + 6.4 - 9.6 - (-2.5)$

$= (-47.04) + 6.4 - 9.6 - (-2.5)$

$= (-40.64) - 9.6 - (-2.5)$

$= (-50.24) - (-2.5)$

$= -47.74$

$\left((1.8)^2 \div (-1.8)\right) \times (-9.1) - (6.3)^2 + 4.3$

$= \left(3.24 \div (-1.8)\right) \times (-9.1) - (6.3)^2 + 4.3$

$= (-1.8) \times (-9.1) - (6.3)^2 + 4.3$

$= (-1.8) \times (-9.1) - 39.69 + 4.3$

$= 16.38 - 39.69 + 4.3$

$= (-23.31) + 4.3$

$= -19.01$

$\left((-2.1) + 2.1\right) \div 8.8 \times (7.3)^2 - (-2.2)^2$

$= 0 \div 8.8 \times (7.3)^2 - (-2.2)^2$

$= 0 \div 8.8 \times 53.29 - (-2.2)^2$

$= 0 \div 8.8 \times 53.29 - 4.84$

$= 0 \times 53.29 - 4.84$

$= 0 - 4.84$

$= -4.84$

Order of Operations with Decimals (H)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(-3.5) \times (-1.8) - (0.2)^2 + 3.1 \div (0.6 - (-1.9))$

$\left((-5.9) - 7.2 + (-3.2)^2\right) \times (7.1 \div (-7.1))^2$

$\left((1.4)^2 - 2.6 \times (-6.5) + (-1.8) \div 0.1\right) \times 5.5$

Order of Operations with Decimals (H) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(-3.5) \times (-1.8) - (0.2)^2 + 3.1 \div \left(0.6 - (-1.9)\right)$

$= (-3.5) \times (-1.8) - (0.2)^2 + 3.1 \div 2.5$

$= (-3.5) \times (-1.8) - 0.04 + 3.1 \div 2.5$

$= 6.3 - 0.04 + 3.1 \div 2.5$

$= 6.3 - 0.04 + 1.24$

$= 6.26 + 1.24$

$= 7.5$

$\left((-5.9) - 7.2 + (-3.2)^2\right) \times (7.1 \div (-7.1))^2$

$= \left((-5.9) - 7.2 + 10.24\right) \times (7.1 \div (-7.1))^2$

$= \left((-13.1) + 10.24\right) \times (7.1 \div (-7.1))^2$

$= (-2.86) \times \left(7.1 \div (-7.1)\right)^2$

$= (-2.86) \times (-1)^2$

$= (-2.86) \times 1$

$= -2.86$

$\left((1.4)^2 - 2.6 \times (-6.5) + (-1.8) \div 0.1\right) \times 5.5$

$= \left(1.96 - 2.6 \times (-6.5) + (-1.8) \div 0.1\right) \times 5.5$

$= \left(1.96 - (-16.9) + (-1.8) \div 0.1\right) \times 5.5$

$= \left(1.96 - (-16.9) + (-18)\right) \times 5.5$

$= \left(18.86 + (-18)\right) \times 5.5$

$= 0.86 \times 5.5$

$= 4.73$

Order of Operations with Decimals (I)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(4.2)^2 \div ((-1.5) \times 9.8 + 3.1 - 8.2 + 5.1)$

$(-1.1) + (-1.4)^2 - (-0.1) \div \left(2.5 \times (0.4)^2\right)$

$(-5.4) - (1.4)^2 + (0.2)^2 \div ((-1.6) \times (-2.5))$

Order of Operations with Decimals (I) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(4.2)^2 \div \left((-1.5) \times 9.8 + 3.1 - 8.2 + 5.1\right)$

$= (4.2)^2 \div \left((-14.7) + 3.1 - 8.2 + 5.1\right)$

$= (4.2)^2 \div \left((-11.6) - 8.2 + 5.1\right)$

$= (4.2)^2 \div \left((-19.8) + 5.1\right)$

$= (4.2)^2 \div (-14.7)$

$= 17.64 \div (-14.7)$

$= -1.2$

$(-1.1) + (-1.4)^2 - (-0.1) \div \left(2.5 \times (0.4)^2\right)$

$= (-1.1) + (-1.4)^2 - (-0.1) \div (2.5 \times 0.16)$

$= (-1.1) + (-1.4)^2 - (-0.1) \div 0.4$

$= (-1.1) + 1.96 - (-0.1) \div 0.4$

$= (-1.1) + 1.96 - (-0.25)$

$= 0.86 - (-0.25)$

$= 1.11$

$(-5.4) - (1.4)^2 + (0.2)^2 \div \left((-1.6) \times (-2.5)\right)$

$= (-5.4) - (1.4)^2 + (0.2)^2 \div 4$

$= (-5.4) - 1.96 + (0.2)^2 \div 4$

$= (-5.4) - 1.96 + 0.04 \div 4$

$= (-5.4) - 1.96 + 0.01$

$= (-7.36) + 0.01$

$= -7.35$

Order of Operations with Decimals (J)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(4.3 \div (-2.5) + 2.1) \times (1.5 - (-6.4) + (-4.9))^2$

$(-0.2)^2 \div ((9.3 + (-5.1) - 7.9) \times 1.4 + 5.1)$

$(-0.5)^2 \times (((-4.3) + (-3.7)) \div (1.9 - 2.9))^2$

Order of Operations with Decimals (J) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left(\underline{4.3 \div (-2.5)} + 2.1\right) \times (1.5 - (-6.4) + (-4.9))^2$

$= \left(\underline{(-1.72) + 2.1}\right) \times (1.5 - (-6.4) + (-4.9))^2$

$= 0.38 \times \left(\underline{1.5 - (-6.4)} + (-4.9)\right)^2$

$= 0.38 \times \left(\underline{7.9 + (-4.9)}\right)^2$

$= 0.38 \times \underline{3^2}$

$= \underline{0.38 \times 9}$

$= 3.42$

$(-0.2)^2 \div \left(\left(\underline{9.3 + (-5.1)} - 7.9\right) \times 1.4 + 5.1\right)$

$= (-0.2)^2 \div ((\underline{4.2 - 7.9}) \times 1.4 + 5.1)$

$= (-0.2)^2 \div \left(\underline{(-3.7) \times 1.4} + 5.1\right)$

$= (-0.2)^2 \div \left(\underline{(-5.18) + 5.1}\right)$

$= \underline{(-0.2)^2} \div (-0.08)$

$= \underline{0.04 \div (-0.08)}$

$= -0.5$

$(-0.5)^2 \times \left(\left(\underline{(-4.3) + (-3.7)}\right) \div (1.9 - 2.9)\right)^2$

$= (-0.5)^2 \times ((-8) \div (\underline{1.9 - 2.9}))^2$

$= (-0.5)^2 \times \left(\underline{(-8) \div (-1)}\right)^2$

$= \underline{(-0.5)^2} \times 8^2$

$= 0.25 \times \underline{8^2}$

$= \underline{0.25 \times 64}$

$= 16$