Order of Operations with Decimals (G)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$3.4 \times (8.5 + (-4.2) - 2.3)^2$

$2.4 - (-8.4)^2 \div ((-5.4) + (-3.6))$

$(4.9)^2 + 5.1 \times (9.2 - 0.5)$

$(-7.2) \div ((-7.4) - 3.1 + 9.7)^2$

$\Big((-2.2)^2 - 1.6 \times (-6.5)\Big) \div (-1.2)$

$(-7.5) \times \Big((-6.5) + (-0.2)^2 - 5.8\Big)$

$(3.6 - (-5.9) + (-8.5)) \times (-1.6)^2$

$(-7.5) - 1.3 \div (0.9 + (-1.1))^2$

Order of Operations with Decimals (G) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$3.4 \times \left(8.5 + (-4.2) - 2.3\right)^2$

$= 3.4 \times (4.3 - 2.3)^2$

$= 3.4 \times 2^2$

$= 3.4 \times 4$

$= 13.6$

$2.4 - (-8.4)^2 \div \left((-5.4) + (-3.6)\right)$

$= 2.4 - (-8.4)^2 \div (-9)$

$= 2.4 - 70.56 \div (-9)$

$= 2.4 - (-7.84)$

$= 10.24$

$(4.9)^2 + 5.1 \times (9.2 - 0.5)$

$= (4.9)^2 + 5.1 \times 8.7$

$= 24.01 + 5.1 \times 8.7$

$= 24.01 + 44.37$

$= 68.38$

$(-7.2) \div \left((-7.4) - 3.1 + 9.7\right)^2$

$= (-7.2) \div \left((-10.5) + 9.7\right)^2$

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

$= (-7.2) \div 0.64$

$= -11.25$

$\left((-2.2)^2 - 1.6 \times (-6.5)\right) \div (-1.2)$

$= \left(4.84 - 1.6 \times (-6.5)\right) \div (-1.2)$

$= \left(4.84 - (-10.4)\right) \div (-1.2)$

$= 15.24 \div (-1.2)$

$= -12.7$

$(-7.5) \times \left((-6.5) + (-0.2)^2 - 5.8\right)$

$= (-7.5) \times \left((-6.5) + 0.04 - 5.8\right)$

$= (-7.5) \times \left((-6.46) - 5.8\right)$

$= (-7.5) \times (-12.26)$

$= 91.95$

$\left(3.6 - (-5.9) + (-8.5)\right) \times (-1.6)^2$

$= \left(9.5 + (-8.5)\right) \times (-1.6)^2$

$= 1 \times (-1.6)^2$

$= 1 \times 2.56$

$= 2.56$

$(-7.5) - 1.3 \div \left(0.9 + (-1.1)\right)^2$

$= (-7.5) - 1.3 \div (-0.2)^2$

$= (-7.5) - 1.3 \div 0.04$

$= (-7.5) - 32.5$

$= -40$