Order of Operations with Decimals (A)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((-6.6) + (-9.2) - (-6.4)^2\right) \div 2.2$

$(-1.8)^2 + 2.5 \times ((-4.5) - (-7.7))$

$\left((-7.2)^2 - 6.4\right) \times (1.8 + (-0.8))$

$(9.5 - (-0.1)) \times (2.5)^2 + (-3.7)$

$\left((-4.1) + (-8.6) - (0.5)^2\right) \times 7.2$

$(7.5 + 3.2) \times (1.2 - 2.2)^2$

$\left(3.1 + (-7.3) - (0.5)^2\right) \times (-2.6)$

$\left(2.2 + (-0.6)^2 - 1.4\right) \times (-2.5)$

Order of Operations with Decimals (A) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((-6.6) + (-9.2) - (-6.4)^2\right) \div 2.2$

$= \left((-6.6) + (-9.2) - 40.96\right) \div 2.2$

$= \left((-15.8) - 40.96\right) \div 2.2$

$= (-56.76) \div 2.2$

$= -25.8$

$(-1.8)^2 + 2.5 \times \left((-4.5) - (-7.7)\right)$

$= (-1.8)^2 + 2.5 \times 3.2$

$= 3.24 + 2.5 \times 3.2$

$= 3.24 + 8$

$= 11.24$

$\left((-7.2)^2 - 6.4\right) \times (1.8 + (-0.8))$

$= (51.84 - 6.4) \times (1.8 + (-0.8))$

$= 45.44 \times \left(1.8 + (-0.8)\right)$

$= 45.44 \times 1$

$= 45.44$

$\left(9.5 - (-0.1)\right) \times (2.5)^2 + (-3.7)$

$= 9.6 \times (2.5)^2 + (-3.7)$

$= 9.6 \times 6.25 + (-3.7)$

$= 60 + (-3.7)$

$= 56.3$

$\left((-4.1) + (-8.6) - (0.5)^2\right) \times 7.2$

$= \left((-4.1) + (-8.6) - 0.25\right) \times 7.2$

$= \left((-12.7) - 0.25\right) \times 7.2$

$= (-12.95) \times 7.2$

$= -93.24$

$(7.5 + 3.2) \times (1.2 - 2.2)^2$

$= 10.7 \times (1.2 - 2.2)^2$

$= 10.7 \times (-1)^2$

$= 10.7 \times 1$

$= 10.7$

$\left(3.1 + (-7.3) - (0.5)^2\right) \times (-2.6)$

$= \left(3.1 + (-7.3) - 0.25\right) \times (-2.6)$

$= \left((-4.2) - 0.25\right) \times (-2.6)$

$= (-4.45) \times (-2.6)$

$= 11.57$

$\left(2.2 + (-0.6)^2 - 1.4\right) \times (-2.5)$

$= (2.2 + 0.36 - 1.4) \times (-2.5)$

$= (2.56 - 1.4) \times (-2.5)$

$= 1.16 \times (-2.5)$

$= -2.9$