Order of Operations with Decimals (J)

Name: _____ Date: _____

Simplify 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: _____

Simplify each expression using the correct order of operations.

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

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

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

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

$= 0.38 \times 3^2$

$= 0.38 \times 9$

$= 3.42$

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

$= (-0.2)^2 \div \left((4.2 - 7.9) \times 1.4 + 5.1\right)$

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

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

$= (-0.2)^2 \div (-0.08)$

$= 0.04 \div (-0.08)$

$= -0.5$

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

$= (-0.5)^2 \times \left((-8) \div (1.9 - 2.9)\right)^2$

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

$= (-0.5)^2 \times 8^2$

$= 0.25 \times 8^2$

$= 0.25 \times 64$

$= 16$