Order of Operations with Decimals (E)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$1.4 \times (-9.7) - (4.2)^2$

$(-0.1) - 4.8 \times (1.5)^2$

$(6.5)^2 \div 2.5 + (-7.5)$

$(-5.8)^2 - (-3.3) \times (-3.4)$

$(7.9 - 8.1) \times (-1.5)^2$

$\left((4.1)^2 - 2.5\right) \div 0.5$

$(-7.2)^2 + (-1.4) \times (-9.5)$

$(-1.9)^2 - (-4.1) \times (-9.1)$

$(-3.5) \times (2.2)^2 - 1.1$

$(-6.6) \times \left((1.5)^2 + (-9.2)\right)$

Order of Operations with Decimals (E) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$1.4 \times (-9.7) - (4.2)^2$
$= 1.4 \times (-9.7) - 17.64$
$= (-13.58) - 17.64$
$= -31.22$

$(-0.1) - 4.8 \times (1.5)^2$
$= (-0.1) - 4.8 \times 2.25$
$= (-0.1) - 10.8$
$= -10.9$

$(6.5)^2 \div 2.5 + (-7.5)$
$= 42.25 \div 2.5 + (-7.5)$
$= 16.9 + (-7.5)$
$= 9.4$

$(-5.8)^2 - (-3.3) \times (-3.4)$
$= 33.64 - (-3.3) \times (-3.4)$
$= 33.64 - 11.22$
$= 22.42$

$(7.9 - 8.1) \times (-1.5)^2$
$= (-0.2) \times (-1.5)^2$
$= (-0.2) \times 2.25$
$= -0.45$

$\left((4.1)^2 - 2.5\right) \div 0.5$
$= (16.81 - 2.5) \div 0.5$
$= 14.31 \div 0.5$
$= 28.62$

$(-7.2)^2 + (-1.4) \times (-9.5)$
$= 51.84 + (-1.4) \times (-9.5)$
$= 51.84 + 13.3$
$= 65.14$

$(-1.9)^2 - (-4.1) \times (-9.1)$
$= 3.61 - (-4.1) \times (-9.1)$
$= 3.61 - 37.31$
$= -33.7$

$(-3.5) \times (2.2)^2 - 1.1$
$= (-3.5) \times 4.84 - 1.1$
$= (-16.94) - 1.1$
$= -18.04$

$(-6.6) \times \left((1.5)^2 + (-9.2)\right)$
$= (-6.6) \times \left(2.25 + (-9.2)\right)$
$= (-6.6) \times (-6.95)$
$= 45.87$