Order of Operations with Decimals (C)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$0.8 \div ((-8.3) + 9.1)^2$

$6.4 \times 0.5 + (3.3)^2$

$(2.6 + 3.9)^2 \times 0.8$

$((-1.5) + 8.7) \div (-0.3)^2$

$(2.2)^2 \times (-7.5) + 5.2$

$(7.5)^2 + 1.5 \times 6.4$

$(-2.8)^2 - 9.7 \times (-1.7)$

$(-1.6)^2 + 9.5 \times (-0.2)$

$0.8 \times (-0.5) - (-4.6)^2$

$(-5.6) \times (-7.9) - (9.9)^2$

Order of Operations with Decimals (C) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$0.8 \div \left((-8.3) + 9.1\right)^2$

$= 0.8 \div (0.8)^2$

$= 0.8 \div 0.64$

$= 1.25$

$6.4 \times 0.5 + (3.3)^2$

$= 6.4 \times 0.5 + 10.89$

$= 3.2 + 10.89$

$= 14.09$

$(2.6 + 3.9)^2 \times 0.8$

$= (6.5)^2 \times 0.8$

$= 42.25 \times 0.8$

$= 33.8$

$\left((-1.5) + 8.7\right) \div (-0.3)^2$

$= 7.2 \div (-0.3)^2$

$= 7.2 \div 0.09$

$= 80$

$(2.2)^2 \times (-7.5) + 5.2$

$= 4.84 \times (-7.5) + 5.2$

$= (-36.3) + 5.2$

$= -31.1$

$(7.5)^2 + 1.5 \times 6.4$

$= 56.25 + 1.5 \times 6.4$

$= 56.25 + 9.6$

$= 65.85$

$(-2.8)^2 - 9.7 \times (-1.7)$

$= 7.84 - 9.7 \times (-1.7)$

$= 7.84 - (-16.49)$

$= 24.33$

$(-1.6)^2 + 9.5 \times (-0.2)$

$= 2.56 + 9.5 \times (-0.2)$

$= 2.56 + (-1.9)$

$= 0.66$

$0.8 \times (-0.5) - (-4.6)^2$

$= 0.8 \times (-0.5) - 21.16$

$= (-0.4) - 21.16$

$= -21.56$

$(-5.6) \times (-7.9) - (9.9)^2$

$= (-5.6) \times (-7.9) - 98.01$

$= 44.24 - 98.01$

$= -53.77$