Order of Operations with Decimals (F)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((8.3)^2 \div (-8.3) - 8.5\right) \times ((-5.8) + 2.6)$

$\left(9.8 - 5.7 \times 4.6 + (8.2)^2\right) \div (-5.5)$

$(2.4 \times (-6.9)) \div (-1.6) + (-5.6) - (-3.3)^2$

$(2.1 \times (-4.1) + (-0.2) - 8.3) \div (0.5)^2$

$(-0.3)^2 + 2.4 \times (3.8 - 1.25) \div (-5.1)$

$\left((6.8)^2 \div 3.4\right) \times (0.5 + 3.3 - 5.1)$

Order of Operations with Decimals (F) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((8.3)^2 \div (-8.3) - 8.5\right) \times ((-5.8) + 2.6)$

$= \left(68.89 \div (-8.3) - 8.5\right) \times ((-5.8) + 2.6)$

$= \left((-8.3) - 8.5\right) \times ((-5.8) + 2.6)$

$= (-16.8) \times \left((-5.8) + 2.6\right)$

$= (-16.8) \times (-3.2)$

$= 53.76$

$\left(9.8 - 5.7 \times 4.6 + (8.2)^2\right) \div (-5.5)$

$= (9.8 - 5.7 \times 4.6 + 67.24) \div (-5.5)$

$= (9.8 - 26.22 + 67.24) \div (-5.5)$

$= \left((-16.42) + 67.24\right) \div (-5.5)$

$= 50.82 \div (-5.5)$

$= -9.24$

$\left(2.4 \times (-6.9)\right) \div (-1.6) + (-5.6) - (-3.3)^2$

$= (-16.56) \div (-1.6) + (-5.6) - (-3.3)^2$

$= (-16.56) \div (-1.6) + (-5.6) - 10.89$

$= 10.35 + (-5.6) - 10.89$

$= 4.75 - 10.89$

$= -6.14$

$\left(2.1 \times (-4.1) + (-0.2) - 8.3\right) \div (0.5)^2$

$= \left((-8.61) + (-0.2) - 8.3\right) \div (0.5)^2$

$= \left((-8.81) - 8.3\right) \div (0.5)^2$

$= (-17.11) \div (0.5)^2$

$= (-17.11) \div 0.25$

$= -68.44$

$(-0.3)^2 + 2.4 \times (3.8 - 1.25) \div (-5.1)$

$= (-0.3)^2 + 2.4 \times 2.55 \div (-5.1)$

$= 0.09 + 2.4 \times 2.55 \div (-5.1)$

$= 0.09 + 6.12 \div (-5.1)$

$= 0.09 + (-1.2)$

$= -1.11$

$\left((6.8)^2 \div 3.4\right) \times (0.5 + 3.3 - 5.1)$

$= (46.24 \div 3.4) \times (0.5 + 3.3 - 5.1)$

$= 13.6 \times (0.5 + 3.3 - 5.1)$

$= 13.6 \times (3.8 - 5.1)$

$= 13.6 \times (-1.3)$

$= -17.68$