Order of Operations with Decimals (F)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$2.8 \div (-2.8) \times \left((-5.3)^2 - (-0.8) + 8.8 - (-0.9)\right)$

$8.3 \times \left(((-7.5) - 0.5) \div (5.8 + (-7.8))^3\right)^2$

$(5.6)^2 \div (-6.4) + (-4.5) \times (((-1.4) - (-0.4)) \times 3.8)$

Order of Operations with Decimals (F) Answers

Solve each expression using the correct order of operations.

$2.8 \div (-2.8) \times \left((-5.3)^2 - (-0.8) + 8.8 - (-0.9) \right)$

$= 2.8 \div (-2.8) \times \left(28.09 - (-0.8) + 8.8 - (-0.9) \right)$

$= 2.8 \div (-2.8) \times \left(28.89 + 8.8 - (-0.9) \right)$

$= 2.8 \div (-2.8) \times \left(37.69 - (-0.9) \right)$

$= 2.8 \div (-2.8) \times 38.59$

$= (-1) \times 38.59$

$= -38.59$

$8.3 \times \left(\left((-7.5) - 0.5 \right) \div (5.8 + (-7.8))^3 \right)^2$

$= 8.3 \times \left((-8) \div \left(5.8 + (-7.8) \right)^3 \right)^2$

$= 8.3 \times \left((-8) \div (-2)^3 \right)^2$

$= 8.3 \times \left((-8) \div (-8) \right)^2$

$= 8.3 \times 1^2$

$= 8.3 \times 1$

$= 8.3$

$(5.6)^2 \div (-6.4) + (-4.5) \times \left(\left((-1.4) - (-0.4) \right) \times 3.8 \right)$

$= (5.6)^2 \div (-6.4) + (-4.5) \times \left((-1) \times 3.8 \right)$

$= (5.6)^2 \div (-6.4) + (-4.5) \times (-3.8)$

$= 31.36 \div (-6.4) + (-4.5) \times (-3.8)$

$= (-4.9) + (-4.5) \times (-3.8)$

$= (-4.9) + 17.1$

$= 12.2$