Order of Operations with Decimals (F)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$2.8 \times \left((3.5)^2 - 2.7 + 5.4\right)$

$(-0.8)^2 - 4.1 \times ((-0.6) \div 0.1)$

$(-5.5)^2 + (-4.3) \times ((-7.1) - (-3.9))$

$\left((-7.5)^2 - (-9.9)\right) \times (-0.8) + 5.1$

$(2.5)^2 \times ((-3.3) + 3.3 - (-9.8))$

$(3.9)^2 - (-3.9) \times ((-0.7) + 2.5)$

$((-3.8) - 4.4) \times (-0.5)^2 + (-6.8)$

$9.6 \times (((-6.7) + 6.9) \div (-0.2))^2$

Order of Operations with Decimals (F) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$2.8 \times \left((3.5)^2 - 2.7 + 5.4\right)$
$= 2.8 \times (12.25 - 2.7 + 5.4)$
$= 2.8 \times (9.55 + 5.4)$
$= 2.8 \times 14.95$
$= 41.86$

$(-0.8)^2 - 4.1 \times \left((-0.6) \div 0.1\right)$
$= (-0.8)^2 - 4.1 \times (-6)$
$= 0.64 - 4.1 \times (-6)$
$= 0.64 - (-24.6)$
$= 25.24$

$(-5.5)^2 + (-4.3) \times \left((-7.1) - (-3.9)\right)$
$= (-5.5)^2 + (-4.3) \times (-3.2)$
$= 30.25 + (-4.3) \times (-3.2)$
$= 30.25 + 13.76$
$= 44.01$

$\left((-7.5)^2 - (-9.9)\right) \times (-0.8) + 5.1$
$= \left(56.25 - (-9.9)\right) \times (-0.8) + 5.1$
$= 66.15 \times (-0.8) + 5.1$
$= (-52.92) + 5.1$
$= -47.82$

$(2.5)^2 \times \left((-3.3) + 3.3 - (-9.8)\right)$
$= (2.5)^2 \times \left(0 - (-9.8)\right)$
$= (2.5)^2 \times 9.8$
$= 6.25 \times 9.8$
$= 61.25$

$(3.9)^2 - (-3.9) \times \left((-0.7) + 2.5\right)$
$= (3.9)^2 - (-3.9) \times 1.8$
$= 15.21 - (-3.9) \times 1.8$
$= 15.21 - (-7.02)$
$= 22.23$

$\left((-3.8) - 4.4\right) \times (-0.5)^2 + (-6.8)$
$= (-8.2) \times (-0.5)^2 + (-6.8)$
$= (-8.2) \times 0.25 + (-6.8)$
$= (-2.05) + (-6.8)$
$= -8.85$

$9.6 \times \left(\left((-6.7) + 6.9\right) \div (-0.2)\right)^2$
$= 9.6 \times \left(0.2 \div (-0.2)\right)^2$
$= 9.6 \times (-1)^2$
$= 9.6 \times 1$
$= 9.6$