Order of Operations with Decimals (H)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left((-1.6)^2 - 1.8\right) \div (-0.4) \times (-8.5)$

$(-6.9)^2 + 7.5 \times (2.9 - (-3.2))$

$(8.6 - (-2.6)) \times (-4.7) + (-3.3)^2$

$(9.6 - 6.9) \times (-1.7) + (6.2)^2$

$(-3.7) \times ((-7.3) + (-1.6) - (-6.9))^2$

$((-5.5) + (-3.7) - 7.8) \times (-0.3)^2$

$(-1.5) \times \left((-9.6) + (-3.1) - (1.8)^2\right)$

$0.4 \times ((1.4 + (-1.4)) \div (-9.4))^3$

Order of Operations with Decimals (H) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left((-1.6)^2 - 1.8\right) \div (-0.4) \times (-8.5)$
$= (2.56 - 1.8) \div (-0.4) \times (-8.5)$
$= 0.76 \div (-0.4) \times (-8.5)$
$= (-1.9) \times (-8.5)$
$= 16.15$

$(-6.9)^2 + 7.5 \times \left(2.9 - (-3.2)\right)$
$= (-6.9)^2 + 7.5 \times 6.1$
$= 47.61 + 7.5 \times 6.1$
$= 47.61 + 45.75$
$= 93.36$

$\left(8.6 - (-2.6)\right) \times (-4.7) + (-3.3)^2$
$= 11.2 \times (-4.7) + (-3.3)^2$
$= 11.2 \times (-4.7) + 10.89$
$= (-52.64) + 10.89$
$= -41.75$

$(9.6 - 6.9) \times (-1.7) + (6.2)^2$
$= 2.7 \times (-1.7) + (6.2)^2$
$= 2.7 \times (-1.7) + 38.44$
$= (-4.59) + 38.44$
$= 33.85$

$(-3.7) \times \left((-7.3) + (-1.6) - (-6.9)\right)^2$
$= (-3.7) \times \left((-8.9) - (-6.9)\right)^2$
$= (-3.7) \times (-2)^2$
$= (-3.7) \times 4$
$= -14.8$

$\left((-5.5) + (-3.7) - 7.8\right) \times (-0.3)^2$
$= \left((-9.2) - 7.8\right) \times (-0.3)^2$
$= (-17) \times (-0.3)^2$
$= (-17) \times 0.09$
$= -1.53$

$(-1.5) \times \left((-9.6) + (-3.1) - (1.8)^2\right)$
$= (-1.5) \times \left((-9.6) + (-3.1) - 3.24\right)$
$= (-1.5) \times \left((-12.7) - 3.24\right)$
$= (-1.5) \times (-15.94)$
$= 23.91$

$0.4 \times \left(\left(1.4 + (-1.4)\right) \div (-9.4)\right)^3$
$= 0.4 \times \left(0 \div (-9.4)\right)^3$
$= 0.4 \times 0^3$
$= 0.4 \times 0$
$= 0$