Order of Operations with Decimals (G)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$((-9.8) - (-7.8) + 8.6)^2 \div (1.1 \times 4.5)$

$((-5.2) \div (-0.4)) \times 2.3 + 2.7 - (-0.9)^2$

$((-3.4) + (-7.9)) \times (-3.7) \div 7.4 - (-2.8)^2$

$\left((-0.7) \times (-0.3) - (1.9)^2\right) \div 0.8 + 7.2$

$8.3 + (-1.1) \div (-2.2) \times ((-3.1) - 6.3)^2$

$\left(7.1 \times 3.7 - (-4.5)^2 + 0.7\right) \div (-0.6)$

Order of Operations with Decimals (G) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$\left((-9.8) - (-7.8) + 8.6\right)^2 \div (1.1 \times 4.5)$

$= \left((-2) + 8.6\right)^2 \div (1.1 \times 4.5)$

$= (6.6)^2 \div (1.1 \times 4.5)$

$= (6.6)^2 \div 4.95$

$= 43.56 \div 4.95$

$= 8.8$

$\left((-5.2) \div (-0.4)\right) \times 2.3 + 2.7 - (-0.9)^2$

$= 13 \times 2.3 + 2.7 - (-0.9)^2$

$= 13 \times 2.3 + 2.7 - 0.81$

$= 29.9 + 2.7 - 0.81$

$= 32.6 - 0.81$

$= 31.79$

$\left((-3.4) + (-7.9)\right) \times (-3.7) \div 7.4 - (-2.8)^2$

$= (-11.3) \times (-3.7) \div 7.4 - (-2.8)^2$

$= (-11.3) \times (-3.7) \div 7.4 - 7.84$

$= 41.81 \div 7.4 - 7.84$

$= 5.65 - 7.84$

$= -2.19$

$\left((-0.7) \times (-0.3) - (1.9)^2\right) \div 0.8 + 7.2$

$= \left((-0.7) \times (-0.3) - 3.61\right) \div 0.8 + 7.2$

$= (0.21 - 3.61) \div 0.8 + 7.2$

$= (-3.4) \div 0.8 + 7.2$

$= (-4.25) + 7.2$

$= 2.95$

$8.3 + (-1.1) \div (-2.2) \times \left((-3.1) - 6.3\right)^2$

$= 8.3 + (-1.1) \div (-2.2) \times (-9.4)^2$

$= 8.3 + (-1.1) \div (-2.2) \times 88.36$

$= 8.3 + 0.5 \times 88.36$

$= 8.3 + 44.18$

$= 52.48$

$\left(7.1 \times 3.7 - (-4.5)^2 + 0.7\right) \div (-0.6)$

$= (7.1 \times 3.7 - 20.25 + 0.7) \div (-0.6)$

$= (26.27 - 20.25 + 0.7) \div (-0.6)$

$= (6.02 + 0.7) \div (-0.6)$

$= 6.72 \div (-0.6)$

$= -11.2$