Order of Operations with Decimals (J)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$(-7.4) \div (-3.7) \times \left((5.2)^2 - (-2.9) + (-7.7)\right)$ $(-8.5) - (-0.6) \times \left((-0.3) + (-1.2)^2 \div 3.6\right)$

$4.4 + 8.2 \times \left((-2.6)^2 \div 1.3 - (-5.7)\right)$ $(-8.4) \times ((-1.2) + 0.3) \div \left((2.9)^2 - 8.2\right)$

$((-7.2) - 8.9 \times 5.9) \div (-3.5) + (-1.5)^2$ $\left(6.9 - (-4.6) \times (-0.4) + (3.8)^2\right) \div (-6.5)$

Order of Operations with Decimals (J) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$(-7.4) \div (-3.7) \times \left((5.2)^2 - (-2.9) + (-7.7)\right)$

$= (-7.4) \div (-3.7) \times \left(27.04 - (-2.9) + (-7.7)\right)$

$= (-7.4) \div (-3.7) \times \left(29.94 + (-7.7)\right)$

$= (-7.4) \div (-3.7) \times 22.24$

$= 2 \times 22.24$

$= 44.48$

$(-8.5) - (-0.6) \times \left((-0.3) + (-1.2)^2 \div 3.6\right)$

$= (-8.5) - (-0.6) \times ((-0.3) + 1.44 \div 3.6)$

$= (-8.5) - (-0.6) \times \left((-0.3) + 0.4\right)$

$= (-8.5) - (-0.6) \times 0.1$

$= (-8.5) - (-0.06)$

$= -8.44$

$4.4 + 8.2 \times \left((-2.6)^2 \div 1.3 - (-5.7)\right)$

$= 4.4 + 8.2 \times (6.76 \div 1.3 - (-5.7))$

$= 4.4 + 8.2 \times \left(5.2 - (-5.7)\right)$

$= 4.4 + 8.2 \times 10.9$

$= 4.4 + 89.38$

$= 93.78$

$(-8.4) \times \left((-1.2) + 0.3\right) \div \left((2.9)^2 - 8.2\right)$

$= (-8.4) \times (-0.9) \div \left((2.9)^2 - 8.2\right)$

$= (-8.4) \times (-0.9) \div (8.41 - 8.2)$

$= (-8.4) \times (-0.9) \div 0.21$

$= 7.56 \div 0.21$

$= 36$

$((-7.2) - 8.9 \times 5.9) \div (-3.5) + (-1.5)^2$

$= \left((-7.2) - 52.51\right) \div (-3.5) + (-1.5)^2$

$= (-59.71) \div (-3.5) + (-1.5)^2$

$= (-59.71) \div (-3.5) + 2.25$

$= 17.06 + 2.25$

$= 19.31$

$\left(6.9 - (-4.6) \times (-0.4) + (3.8)^2\right) \div (-6.5)$

$= \left(6.9 - (-4.6) \times (-0.4) + 14.44\right) \div (-6.5)$

$= (6.9 - 1.84 + 14.44) \div (-6.5)$

$= (5.06 + 14.44) \div (-6.5)$

$= 19.5 \div (-6.5)$

$= -3$

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