Order of Operations with Decimals (B)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$(3.3)^2 \div 5.5 \times (5.4 - (-8.7) + 5.9)$

$\left((2.5)^2 \div (9.1 - 2.2 + 5.6)\right) \times 4.3$

$(-7.7)^2 \div ((-0.5) \times 5.6 + (-2.4) - (-0.3))$

$\left(2.4 + 3.6 \times (-9.4) - (-3.6)^2\right) \div 0.6$

$(((-0.8) + 8.6) \div (-1.3)) \times (-8.6) - (7.6)^2$

$\left((3.6)^2 - 5.1 \div (4.1 + (-6.6))\right) \times (-2.3)$

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Order of Operations with Decimals (B) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$(3.3)^2 \div 5.5 \times \left(5.4 - (-8.7) + 5.9 \right)$

$= (3.3)^2 \div 5.5 \times (14.1 + 5.9)$

$= (3.3)^2 \div 5.5 \times 20$

$= 10.89 \div 5.5 \times 20$

$= 1.98 \times 20$

$= 39.6$

$\left((2.5)^2 \div (9.1 - 2.2 + 5.6) \right) \times 4.3$

$= \left((2.5)^2 \div (6.9 + 5.6) \right) \times 4.3$

$= \left((2.5)^2 \div 12.5 \right) \times 4.3$

$= (6.25 \div 12.5) \times 4.3$

$= 0.5 \times 4.3$

$= 2.15$

$(-7.7)^2 \div \left((-0.5) \times 5.6 + (-2.4) - (-0.3) \right)$

$= (-7.7)^2 \div \left((-2.8) + (-2.4) - (-0.3) \right)$

$= (-7.7)^2 \div \left((-5.2) - (-0.3) \right)$

$= (-7.7)^2 \div (-4.9)$

$= 59.29 \div (-4.9)$

$= -12.1$

$\left(2.4 + 3.6 \times (-9.4) - (-3.6)^2 \right) \div 0.6$

$= \left(2.4 + 3.6 \times (-9.4) - 12.96 \right) \div 0.6$

$= \left(2.4 + (-33.84) - 12.96 \right) \div 0.6$

$= \left((-31.44) - 12.96 \right) \div 0.6$

$= (-44.4) \div 0.6$

$= -74$

$\left(\left((-0.8) + 8.6 \right) \div (-1.3) \right) \times (-8.6) - (7.6)^2$

$= \left(7.8 \div (-1.3) \right) \times (-8.6) - (7.6)^2$

$= (-6) \times (-8.6) - (7.6)^2$

$= (-6) \times (-8.6) - 57.76$

$= 51.6 - 57.76$

$= -6.16$

$\left((3.6)^2 - 5.1 \div \left(4.1 + (-6.6) \right) \right) \times (-2.3)$

$= \left((3.6)^2 - 5.1 \div (-2.5) \right) \times (-2.3)$

$= \left(12.96 - 5.1 \div (-2.5) \right) \times (-2.3)$

$= \left(12.96 - (-2.04) \right) \times (-2.3)$

$= 15 \times (-2.3)$

$= -34.5$