Order of Operations with Decimals (C)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(-5.7) \times \left(2.9 - 2.3 + (-2.8)^2 \div (-1.6)\right)$

$2.2 \times ((-2.7) + 7.9 - 8.7)^2 \div 1.4$

$\left((-8.8) \div 8.8 - (-6.6)^2\right) \times (5.3 + (-4.8))$

$(0.4 \times (-1.5)) \div (-0.5) + 7.8 - (6.2)^2$

$((-5.1) \div (-0.6)) \times 1.5 - 1.4 + (-0.7)^2$

$\left(6.2 \times 8.7 + 6.6 - (1.3)^2\right) \div (-2.5)$

Order of Operations with Decimals (C) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(-5.7) \times \left(2.9 - 2.3 + \underline{(-2.8)^2} \div (-1.6)\right)$
$= (-5.7) \times \left(2.9 - 2.3 + \underline{7.84 \div (-1.6)}\right)$
$= (-5.7) \times (\underline{2.9 - 2.3} + (-4.9))$
$= (-5.7) \times \left(\underline{0.6 + (-4.9)}\right)$
$= \underline{(-5.7) \times (-4.3)}$
$= 24.51$

$2.2 \times \left(\underline{(-2.7) + 7.9} - 8.7\right)^2 \div 1.4$
$= 2.2 \times (\underline{5.2 - 8.7})^2 \div 1.4$
$= 2.2 \times \underline{(-3.5)^2} \div 1.4$
$= \underline{2.2 \times 12.25} \div 1.4$
$= \underline{26.95 \div 1.4}$
$= 19.25$

$\left((-8.8) \div 8.8 - \underline{(-6.6)^2}\right) \times (5.3 + (-4.8))$
$= \left(\underline{(-8.8) \div 8.8} - 43.56\right) \times (5.3 + (-4.8))$
$= \left(\underline{(-1) - 43.56}\right) \times (5.3 + (-4.8))$
$= (-44.56) \times \left(\underline{5.3 + (-4.8)}\right)$
$= \underline{(-44.56) \times 0.5}$
$= -22.28$

$\left(\underline{0.4 \times (-1.5)}\right) \div (-0.5) + 7.8 - (6.2)^2$
$= (-0.6) \div (-0.5) + 7.8 - \underline{(6.2)^2}$
$= \underline{(-0.6) \div (-0.5)} + 7.8 - 38.44$
$= \underline{1.2 + 7.8} - 38.44$
$= \underline{9 - 38.44}$
$= -29.44$

$\left(\underline{(-5.1) \div (-0.6)}\right) \times 1.5 - 1.4 + (-0.7)^2$
$= 8.5 \times 1.5 - 1.4 + \underline{(-0.7)^2}$
$= \underline{8.5 \times 1.5} - 1.4 + 0.49$
$= \underline{12.75 - 1.4} + 0.49$
$= \underline{11.35 + 0.49}$
$= 11.84$

$\left(6.2 \times 8.7 + 6.6 - \underline{(1.3)^2}\right) \div (-2.5)$
$= (\underline{6.2 \times 8.7} + 6.6 - 1.69) \div (-2.5)$
$= (\underline{53.94 + 6.6} - 1.69) \div (-2.5)$
$= (\underline{60.54 - 1.69}) \div (-2.5)$
$= \underline{58.85 \div (-2.5)}$
$= -23.54$