Order of Operations with Decimals **(C)**

Name: _____

Solve each expression using the correct order of operations.

$0.7 + (-8.8) \div 2.2 \times \left((-8.7)^2 - (8.7)^2 \right)$

$(9.9 - 1.8 \times 5.5)^3 \div 1.6 + (-4.4) + 7.4$

$5.7 - (-7.1)^2 + (-1.6)^2 \times ((-5.5) \div (-0.2))$

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$0.7 + (-8.8) \div 2.2 \times \left(\underline{(-8.7)^2} - (8.7)^2\right)$

$= 0.7 + (-8.8) \div 2.2 \times \left(75.69 - \underline{(8.7)^2}\right)$

$= 0.7 + (-8.8) \div 2.2 \times (\underline{75.69 - 75.69})$

$= 0.7 + \underline{(-8.8) \div 2.2} \times 0$

$= 0.7 + \underline{(-4) \times 0}$

$= \underline{0.7 + 0}$

$= 0.7$

$(9.9 - \underline{1.8 \times 5.5})^3 \div 1.6 + (-4.4) + 7.4$

$= (\underline{9.9 - 9.9})^3 \div 1.6 + (-4.4) + 7.4$

$= \underline{0^3} \div 1.6 + (-4.4) + 7.4$

$= \underline{0 \div 1.6} + (-4.4) + 7.4$

$= \underline{0 + (-4.4)} + 7.4$

$= \underline{(-4.4) + 7.4}$

$= 3$

$5.7 - (-7.1)^2 + (-1.6)^2 \times \left(\underline{(-5.5) \div (-0.2)}\right)$

$= 5.7 - \underline{(-7.1)^2} + (-1.6)^2 \times 27.5$

$= 5.7 - 50.41 + \underline{(-1.6)^2} \times 27.5$

$= 5.7 - 50.41 + \underline{2.56 \times 27.5}$

$= \underline{5.7 - 50.41} + 70.4$

$= \underline{(-44.71) + 70.4}$

$= 25.69$