

MODULE 1: LINEAR EQUATIONS AND INEQUALITIES (CONTINUED)

*"STRENGTH DOESN'T COME FROM WHAT YOU CAN DO, IT
COMES FROM OVERCOMING THE THINGS YOU COULDN'T DO"*

2.2 SOLVING EQUATIONS

When solving with decimals, first _____.

Then multiply every term by the smallest place value.

\underline{x} = 10th place \underline{xx} = 100th place \underline{xxx} = 1000th place

Ex. Solve: $0.3(x+30) - 0.05(x-10) = -5.5$

Ex. Solve: $0.1(x+50) - 0.04(x-30) = 5.6$

When solving equations involving _____,

You can either keep the fractions, and find the _____

or you can clear/remove the fractions with _____.

Ex. Solve (using LCD): $\frac{1}{4}x - 10 = \frac{1}{7}x$

Ex. Solve (clearing fractions): $\frac{1}{4}x - 10 = \frac{1}{7}x$

Ex. Solve: $\frac{1}{2}x + 10 = \frac{1}{8}x$

Ex. Solve: $\frac{1}{3}x + \frac{1}{4} = 2\left(\frac{4}{5}x - 3\right)$