Clearing Decimals

I. Base 10

A. Decimal Place Value

ex: $0.3 \times 10 = 3$

tenths

ex: $0.54 \times 100 = 54$

hundredths

ex: $4.791 \times 1{,}000 = 4{,}791$

thousandths

II. Equations w/ Decimals

ex: $(10)\ 0.8x + 1.6 = 5\ (10)$

(tenths) (tenths) (ones)

$8x + 16 = 50$

$-16 \quad -16$

$\frac{8x}{8} = \frac{34}{8}$ simplify $\div 2$

$\frac{8 \div 2}{}$

$x = \frac{17}{4}$

10 or 100 bigger #

ex: $(100)\ 0.9x + 1.13 = 5.40\ (100)$

(tenths) (hundredths) (tenths)

$90x + 113 = 540$

$-113 \quad -113$

$\frac{90x}{90} = \frac{427}{90}$

$x = \frac{427}{90}$

- Can only multiply by one #