Metric Conversions

M	k	h	da	g, L, m	d	c	m	μ
mega	kilo	hecto	deca	base	deci	centi	milli	micro
10^6	10^3	10^2	10^1	10^0	10^{-1}	10^{-2}	10^{-3}	10^{-6}
					$(\frac{1}{10})$	$(\frac{1}{10^2})$	$(\frac{1}{10^3})$	$(\frac{1}{10^6})$

$\times 10^?$ (move dec to right)

$\div 10^?$ (move dec to left)

29. $4008\,g = 4008000\,mg$ (move dec)

$$x\,mg = 4008\,g \left(\frac{1000\,mg}{1\,g}\right)$$ (factor labelling)

↑ what you want ↑ start with ↑ conversion

$x\,mg = 4008000$

30. $48\,mL = 0.048\,L$ (move dec)

$$x\,L = 48\,mL \left(\frac{1\,L}{1000\,mL}\right)$$ (factor labelling)

$48\,mL = 48 \times 10^{-3}\,L$ (use the prefix → base unit)

$= 4.8 \times 10^{-2}\,L$

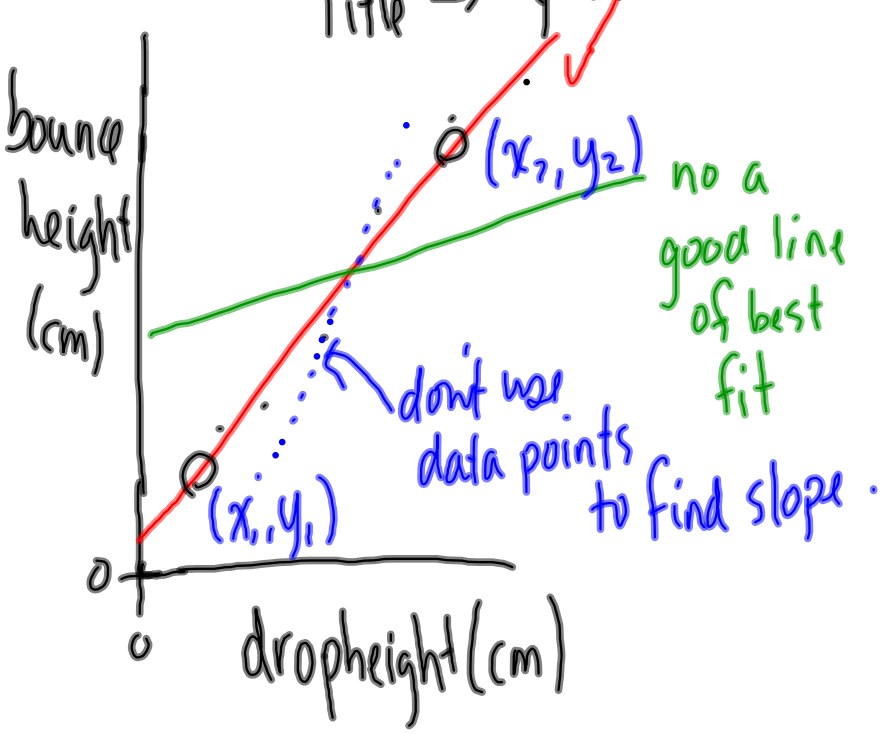
31. $239\,mm = 23.9\,cm$

32. $38\,kg = 38000000\,mg$

Sep 9-9:05 AM

Bounce that Ball

Title => y vs x



$$m = \frac{\Delta y}{\Delta x}$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$y = mx + b$$