

PHYSICS

accuracy - the right answer - how close to the accepted value is it?

precision - measure of consistency between values - how repeatable is it?

pure numbers - definition which carries infinite sig figs - "math numbers" ex: $1m = 100cm$

measured #'s - use a measuring device which carries limited precision - we show confidence in measured #'s using sig figs

~~3604000~~ four sig figs ~~3604000.~~ seven sig figs 3.20×10^3 three sig figs
 0-4 round down 5-9 round up $6cm/2sec = 3cm \cdot sec$

order of magnitude - a measure of how big a measurement should be

$1m - 10^0$	$0.5m - 10^{-1}$	$1,000m - 10^3$	$500m - 4999.9$
$10m - 10^1$	$5m - 49m$	$0.1m - 10^{-1}$	$0.05m - 0.49$
$100m - 10^2$	$50m - 499m$	$0.01 - 10^{-2}$	$0.005m - 0.049$

CONVERSIONS of KNOW & LOVE

- $100cm = 1m$
- $1000m = 1Km$
- $1000g = 1Kg$
- $1000mL = 1L$
- $1609m = 1mi$
- $2.54cm = 1in$
- $4.448N = 1lb$

dimensional analysis - convert $25m/hr \rightarrow m/s$

25	1609 m	1 hr	1 min
1	yd	12 in	60 min

100 yd	3 ft	1 ft	1 in
1 yd	12 in	254 cm	

numbers continued

scalars - only magnitude matters \rightarrow ex: temp, mass, speed

vectors - magnitude & direction are equally important \rightarrow displacement, velocity, & force

three way tug of war



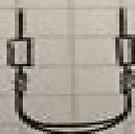
adding vectors

"tip to tail"

- 1) length & direction matter
- 2) pick a starting vector
- 3) add next vector "tip to tail"

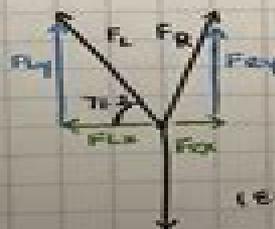


ex:



STATIC EQUILIBRIUM

stationary forces balance



$$\begin{aligned} \sin\theta &= \frac{D}{R} \\ &+ \frac{FL_y}{FL} \\ &+ \sin(71.2) = \frac{FL_y}{84.63} \end{aligned}$$

$$(84.63) \sin(71.2) = FL_y$$

$$\begin{aligned} \cos\theta &= \frac{R}{R} \\ &+ \frac{FR_x}{FR} \\ &+ \cos(71.2) = \frac{FR_x}{84.63} \end{aligned}$$

$$(84.63) \cos(71.2) = FR_x$$

Physics Take Note

AN Whitehead



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