Note Title 1/18/2013

Chap 1 Doing Physics

Subject Matter

Motion 10,2D
Forces F=ma
Energy (work)
Momentum
Rotations
Oscillations
Waves

<u>Proplems</u>

Ignore: Gravity
Fluids
Statics
Thormal Physics

Doing physics

S=ientific Notation

0.000 5789

5.789 × 10⁻⁴

Units! 9.cm, 5

Lo. M. S MIRS SI

Prefixes

 $cm = 10^{2} m$ $ms = 10^{-6} s$

Terra - pls T Giga - 1012 G Meg a - 106 M leilo __103 k -10 conti -10-2 milli - 10-3 m m1000 - 10-6 M nano - 10 9 p100 -- 10-12 P Converting "Multiply by " method Burj Khalifa

Convert
$$70\frac{mi}{hr}$$
 convert $\frac{m}{5}$
 $(70\frac{mi}{h})\frac{1h}{36005}\frac{1}{1m}\frac{0.3048m}{1H} = 31.3\frac{m}{5}$
 $(2.71\frac{3}{cm^2})\frac{100cm}{1g}\frac{100cm}{1m}^3 = 2.71x10^3\frac{100cm}{m^3}$
 $(4.730\pm 0.005)\times10^7$

(3.25)(8.7) = 2.8275Sunt the Holl hmown 3.254 3.246 Arswais rounded to 1.7 ×10-4 the least of these

5.02135

"Sig Figures"
9.173580047

Yoblem Solviva Read, try to picture it mentally Draw a picture Plansible,

Chap 2 Motion in 1 Dimension + Cmp3 Start of simple