Unit and Demonsion

Physical Quantity

Aphysical quantity is a prespertly of a modercial on System that can be quantified by measurement.

-2+12 of a types

1) Fundamental quantity:

physical quantities are a set of Suitably Choosen independent observable which are defined operationally ex. mass; length, time

2> Dercived:-

The physical quantities which are defined interms of physical quantity.

ex velocity, Acceleration, Force etc.

	the state of the s	
S.I centit	s.I unit	symbol
physical quantity	3.10.11	ka.
17 Longth Mass	lerogram	0
o> length	metrie	2
3) Time	Amperce	A
4) Electric current	keiven .	K
5) Temperconture		
En Condo	Condela	Cd
6) heminous Intensity		mol.
7) Amount of	more you was	
Substance		

Metrcic	DuceLIX
Witness Co.	

Diceflx	Doioek of 10	Symbol	
deci	10-1		
Conti	1000	and Control of	
mili:	(0-3	m	
micro	J. (1166)	M (mu)	
nano	LO 9	n	
Pico	(0,0	P/.	
Fomto	(0" 11 11)	him Africa Control	
OHO	10-18		
Dorosi of 10	DKEAX	Symbol	
(0")	Deca	D day	
(O _g	146640	TH. 1.1	
(93	leilo.	10	
106	mega	Н	
·lofi	Ciga	- G	
(o ¹²	Torco	T	
(0 ¹⁵	peta	P	
1018	Exa	E Linit	
100 3 1 1 3	4 19 12	1 may large a	
* Momentum, P = mals x velocity			
	= [m' co 70] x [mo]	2. 二 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	= [M/L/7-1]	17/1101	
* force = ma	113		
	0) x[N01172]		
=[wiei-			
k Worce = Force	Y dial nace	old is writing to the	
		13 61 1905 4 6	
=[M'1172) x[M01170]			
=[M1 F37	`)		

* Angle = [
$$M^{0}L^{0}T^{0}$$
]
* Impulse σ , $I = Ft$
= [$M^{1}L^{1}T^{2}$] [T^{1}]
= [$M^{1}L^{1}T^{-1}$]

- * Work and energy are having same dimentional formula.
- * Dimerional formula of momentum and Impule oure same.
- * Angle is a dimesionless quantity.

Properties of unex

A confit most possess the following

1) It Should be invariable (can't be changed)

a) It should be easily available for compression with various measurement.

3) It should be convenient in size.

Fundamental Quantities

for two study of physics up neod 7 fundaments

- is mais
- a> Length
- 9 mit (E
- 4) Electric Current
- 5) Temperature
- 6) Luminosity
- 7) Amount of aubitanco.

System of Unit 1) C. G. S. System (Gaussian System)

-It is a system of measurcement in which two fundamental units of the measurcement of length, mass and time are tower as icm, Igm and like repretively.

* This system contain many derived units which are small in size.