

UNITS AND MEASUREMENT

* VERNIER CALLIPER



* Least count = 1 mm

↳ main scale

* Least count = 1430 - 1430
of vernier

→ 10 div V.S = 9 div Main Scale

1 div V.S = $\frac{9}{10}$ = 0.9 div MS

LC = 1 mm - 0.9 = 0.1 mm

* Reading :-

Read = (main scale Reading) +
(No. of division which
exactly coincide
with a number of main
division \times least count)

* Least count of screw gage

scale (normal) = 1 mm

VS \rightarrow 0.1 mm

Screw gage = 0.01 mm

1 Rotation \rightarrow 100 div \rightarrow 1 mm

LC = 1 div = $\frac{1}{100}$ mm

* UNITS :-

Luminous intensity = Cd

Plane angle \rightarrow Rad

* Derived Quantity :-

Energy \rightarrow Joule \rightarrow N-m

$\rightarrow \frac{\text{kg m}^2}{\text{s}^2} \Rightarrow [M^1 L^2 T^{-2}]$

Gravitation = $\frac{G m m}{r^2} = \frac{\text{Nm}^2}{\text{kg}^2}$

$G = \frac{F r^2}{m_1 m_2} \Rightarrow \frac{\text{kg m}}{\text{s}^2} \times \frac{\text{m}^2}{\text{kg}^2}$

$[M^{-1} L^3 T^{-2}]$

SI units = system int-1
CGS units
FPS units
MKS units

* Significant figures :-
all non zero are
significant

42.3 = 3 significant

243.4 = 4 significant

→ A zero becomes sig
nificant figure if
it lies between
two non zero signifi-
cant figures.

5.303 = 4 significant

5.601 = 4 " "

→ If zero not in b/w
any non-zero num-
ber. Then

0.543 = 3 SF

0.045 = 2 SF

→ If zero is in the
last of the values.

4.330 \rightarrow 4 SF

433.000 \rightarrow 6 SF

→ In exponential form
on the numeric values
are counted.

$4.35 \times 10^{-2} = 3 \text{ SF}$

$4.32 \times 10^{-5} = 3 \text{ SF}$

* Application of SF :-

Rounding off :-

a \rightarrow 33.3 \rightarrow [1]

b \rightarrow 0.313 \rightarrow [3]

c \rightarrow 3.11 \rightarrow [2]

36.723

always Round off to
the last decimal
place

$\therefore 36.7$ Ans

→ If the digit to be
dropped is 5 and is
followed only by zeros,
the last remaining
remaining digit is
increased by one if
it is odd, but left as
it is if even.

1.76500 = 1.76 } upto 3

1.75500 = 1.76 } SF

* Dimensional analysis :-

on adding the unit is
same.

eg: $v = u + at$

$\frac{\text{m}}{\text{s}} = \frac{\text{m}}{\text{s}} + \frac{\text{m}}{\text{s}^2} \times \text{s}$

* Principle of Homogeneity

→ two quantity in add or
subtraction should have
same dimension.

→ Quantities on either side
of expression should have
same dimension.

Q. $v = \frac{A}{t} + Bt^2 + Ct^3$

dimension = ?
m/s m/s m/s m/s

$Bt^2 = \text{m/s}$

$B = \frac{\text{m/s}}{t^2} \Rightarrow \text{m/s}^3$

$[M^0 T^{-3} L^1] \text{ Ans}$

* Error :-

Instrument error

Systematic error = due to
calibration

Random error = ambient
condition - Tuffan

Personal error

Kenyan Schools Physics Notes

Jianjun Gao



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