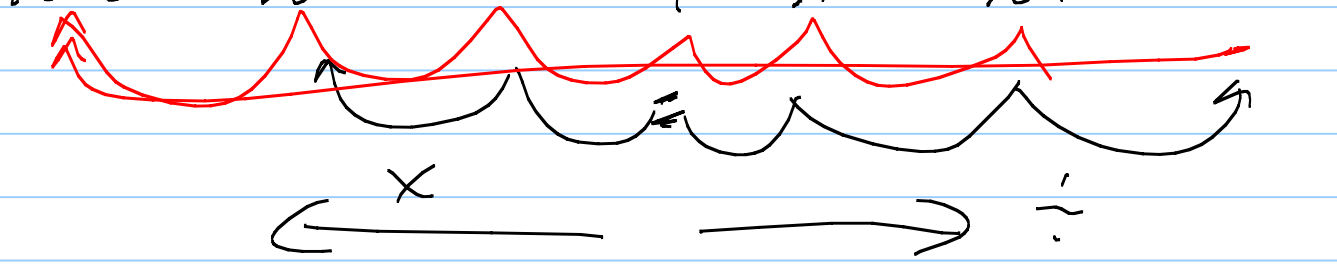
SI MEASUREMENT

Note Title 5/16/2011

- SI USES BASE 10 OF MEASUREMENT
- REFERENT - AN ITEM USED TO ESTIMATE MEASUREMENT

MM	CM	DM	M	DAM	HM	Km
MILLI	CENTI	DECI		DECA	HECTO	KILO
1000	100	10	1	0.1	0.01	0.001



IE CONVERT A) 6500 m = ____ Km

6500 × .001 = 6.5 Km ← BOOK

6500 ÷ 10 ÷ 10 ÷ 10 = 6.5 Km

B) 0.09 m = ____ cm

.09 × 100 = 9 cm ← BOOK

.09 × 10 × 10 = 9 cm

C) 0.8 Km = ____ mm

0.8 × 10 × 10 × 10 × 10 × 10 × 10 =

0.8×10^6 = 800000 mm

d) 430000 dm = _____ hm

$430000 \div 10 \div 10 \div 10 = 430$ hm

MEASUREMENT

PERIMETER = DISTANCE AROUND THE OUTSIDE

CIRCUMFERENCE = PERIMETER OF A CIRCLE

$= \pi d$ OR $2\pi r$

AREA = AMOUNT OF SPACE TAKEN UP BY AN OBJECT (2 DIMENSIONAL)

AREA OF A CIRCLE = πr^2

VOLUME OF A CUBE = s^3

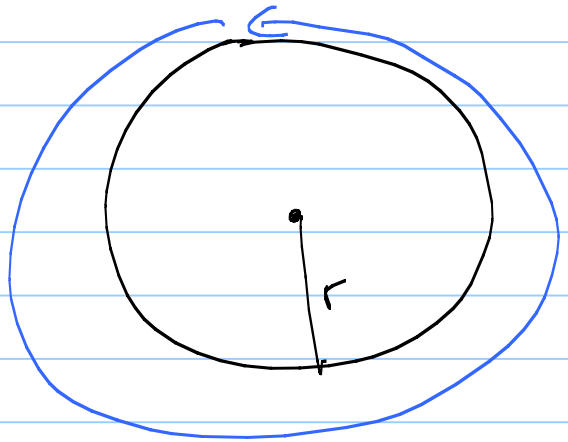
SURFACE AREA OF A CUBE = AREA OF ALL SIDES ADDED UP

$= 6s^2$

VOLUME OF A SPHERE = $\frac{4}{3}\pi r^3$

SURFACE AREA = $4\pi r^2$

IE WHAT IS THE RADIUS OF A CIRCLE WITH THE CIRCUMFERENCE OF 31.4 cm?



SOLN $C = 2\pi r$

$31.4 = 2(3.14)r$

$\frac{31.4}{6.28} = \frac{6.28r}{6.28}$

$5_{cm} = r$

11. FIND THE VOLUME OF A SPHERE WITH A RADIUS OF 6 cm

SOLN $V = \frac{4}{3}\pi r^3$

$V = \frac{4}{3}(3.14)6^3$

$V = 904.78\ cm^3$

H/W pg 15 # 1, 2, 5-8, 13, 16