fg-3

A square continetie is a standard unit queen. It is written as

Cm² or square Cm.

Relations

 $100 \, \text{cm}^2 = 100 \, \text{mm}^2$ $100 \, \text{cm}^2 = 1 \, \text{dm}^2$ $10000 \, \text{cm}^2 = 1 \, \text{m}^2$ $1 \, \text{are} = 160 \, \text{m}^2$ $1 \, \text{fectare} = 100 \, \text{ares}$ $1 \, \text{fectare} = 100 \, \text{fectares}$.

Area and Perimeter

(a) Rectangle: Let I be the length and 'b' be the width of the rectangle then Area = IXB Square Units

Perimeter = 2(l+b) Units

Dragenal = $\sqrt{l+b^2}$ "

length = $\frac{Area}{Width}$ "

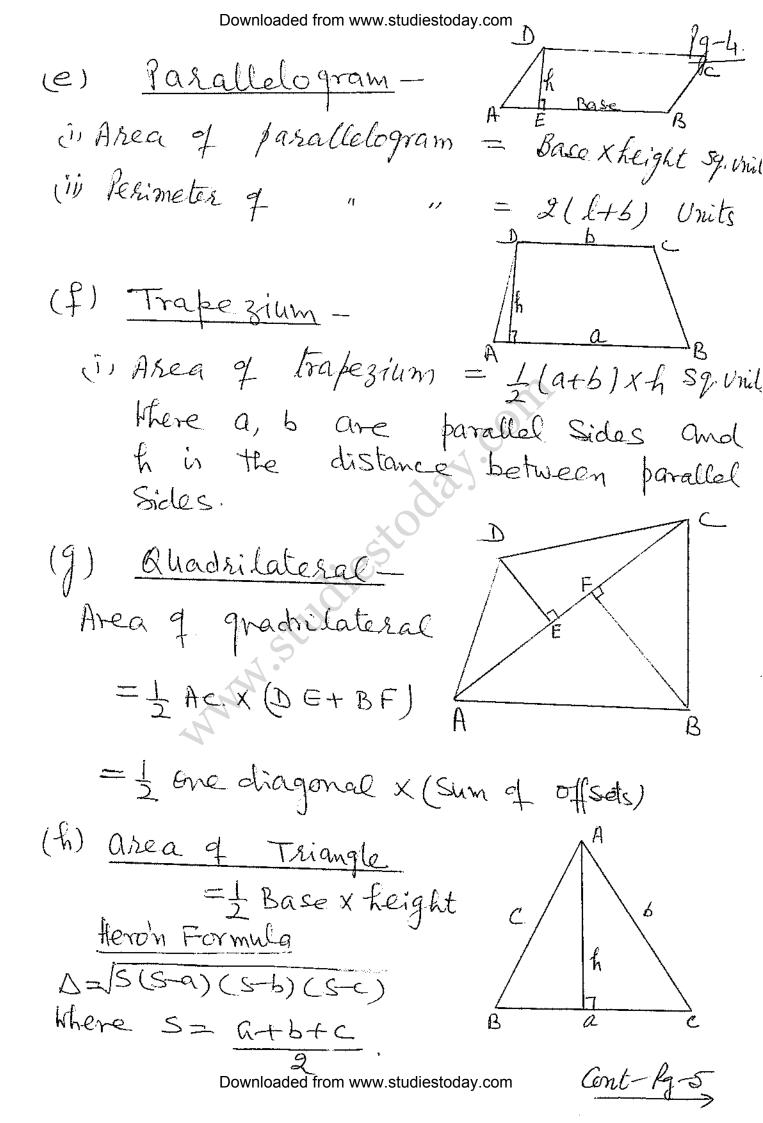
Nidth = Area

Downloaded from www.studiestoday.goth

Cont-19-3

Downloaded from www.studiestoday.com

Cont. - Pg-4



Downloaded from www.studiestoday.com (i) Right angled trianglearea of right angled triangle = + BCXBA OR = 1 boduct of degs or = 1 Product of Base and perpendiale Isosceles triangle. area of isosceles triangle $=\frac{b}{1b}\sqrt{4a^2-b^2}$ = Base / 4 (Engment Side) = (Base) 2 Circle (i) Breag Circle=Tr22 Where $T = 22 = 3.14 = \frac{355}{113}$ (11) Circhonference of circle

Cont-19-6

Downloaded from www.studiestoday.com

1. <u>Cuboid</u>: A Solid bounded by 8x rectangular plane faces in Called a Cuboid.

t = l = l = k = 1 b = Width

h= Height

F D C IN T

Volume of Cuboid = lxbxh Cu. Unite

length of Cubord = V Units

Width of Cuboid = V / 1xp

Height of enboid = V / 1xb

Note: To find the length of the longest had that can be kept inside the hoom (Cuboid Shape) in Diagonal of the Cuboid = $\sqrt{l^2+b^2+h^2}$ Unit

d. Cube: A Solid bounded by Six Equal Square faces in called a Cube. It has 12 edges, 6 faces, 8 vertices. det 5 be the length of me edge.

Downloaded from www.studiestoday.com

Cont-lg-8

Cuboid- S.A of a Solid in Equal to the Sum of the areas of its faces. Some of the Surfaces are planes while others are curves. In order to get the total S.A. we Shall calculate the area of each face (plane or Curved) and add them up. A Solid bounded by Six rectangula

Downloaded from www.studiestoday.com

plane faces in Called a Cuboid.

Cont-lg-9

Downloaded from www.studiestoday.com
A Cuboid has 6 reclargular faces, 12 edges and 8 vertices.
12 edges and 8 Vertices.
orny face of a choosed may be
Called it base.
the four faces which meet the base are called the lateral faces
of the Cubord.
(9) Lateral S.A of Cuboid = 2h (1+b) sq. Units
9 re acosa. (9) Lateral S.A of Cuboid = 2h (1+b) sq. Units (b) Total S.A. of Cuboid = 2(lb+bh+hl) Sq. Units.
(C) Diagonal of a Cubord = Jetbethe units
(d) Area of four Walls = 2h(l+b) sq.unil
2. Cube - A Cuboid Whose length breadth
and height are all equal in called a
Cube. Each edge of a Cube in called
its side. It has 6 square faces, 12 edge
and 8 vertices. Any face of the cube
is its base. The four faces which meet it base are Called its lateral face
meet it base are Called it lateral face

Downloaded from www.studiestoday.com

is Volume of cube = (edge)³
is Diagonal of Cube = V3(edge)
is Total SA. of Cube = 6 (edge)²
is Lateral SA. of Cube = 4 (edge)²

Downloaded from www.studiestoday.com

Cont-lg-11

3. Cylinder:

General Introduction: - Students, you must have

seen road roller, a gas cylinder. Circular water tank, Circular pencil the are the examples of cylinder, so

as a lateral surface and a Uniform Circular cross-section, in known on a Cylinder. Brief explanation of it is,

the radius of the Cross-section the radius of the Cylinder e.g. CB

in The line joining the centre's of these cross-sections in called the onis of the cylinder. eg. oc

(iii) The Circular end of cylinder in Axis Called base.

ivs The length between the two ends is called the length or height of the Cylinder

In general, cylinder always mean right circular cylinder

Cent-lg-12

19-11

is Called Radius

is Units of area are Square Units