



INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS CH:11-CONSTRUCTIONS

Name: _____

Date: _____

Class: X Sec: ____

1.	. Draw a triangle ABC with sides BC = 6.3cm, AB = 5.2cm and $\angle ABC = 60^\circ$. Then construct a triangle whose sides are times the corresponding sides of ΔABC .
2.	Draw an equilateral triangle of height 3.6 cm. Draw another triangle similar to it such that its side $\frac{2}{3}$ is $\frac{2}{3}$ of the side of the first.
3.	Draw an isosceles ΔABC , in which AB = AC = 5.6 cm and $\angle ABC = 60^\circ$. Draw another $\Delta AB'C'$ similar to ΔABC such that $AB' = \left(\frac{2}{3}\right)AB$.
4.	Construct a tangent to a circle of radius 2cm from a point on the concentric circle of radius 2.6cm and measure its length. Also, verify the measurements by actual calculations
5.	Draw a pair of tangents to a circle of radius 2cm that are inclined to each other at an angle of 90° .
6.	Draw a line segment of length 7cm .Find a point P on it which divides it in the ratio 3:5
7.	Draw a Rt.Angle triangle ABC in which BC=12cm,AB=5cm and $\angle B=90^\circ$. Construct a triangle similar to it and of scale factor $\frac{2}{3}$.Is the new triangle also a rt.angled one?
8.	Construct a tangent to a Circle of radius 4cm from a point which is at a distance of 6cm from its centre.