NALANDA V **Nalanda Vidyalaya – Colombo 10** DA VIDYALAYA

NALANDA VIDYALAY 3rd Term - Unit Test Project   NALANDA VIDYALAYA

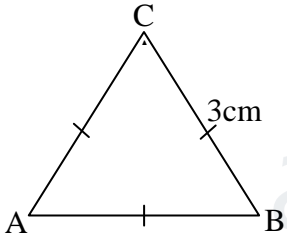| Grade 7 | Mathematics | 2 hours |

Grade 7 - Mathematics

24 - Construction of Rectilinear plane Figures

Part I

(1) Construct the straight line segment AB of length 4cm using a straight edge and a pair of compasses.

(2) Construct a regular hexagon of side length 5cm.

(3) Draw a straight line *l* and construct the straight line segment PQ of lengh 8.5cm on it.

Part II

(1)

i) Construct the equilateral triangle ABC in the figure.

ii) Measure the $A\hat{B}C$ and write the magnitude of it.

iii) Draw a straight line to parallel the line AB, which passes through the point C.

iv) Draw a straight line to parallel the line BC which passes through the point A.

v) Draw a straight line to parallel the line AC which passes through the point B.

vi) Mark the intersection points as P, Q and R

vii) Find the length of PQ.

(2) i) Construct a circle of radius 3cm.
ii) Construct a regular hexagon with its vertices on the above circle.

(3) i) Construct a straight line segment AB of length 6 cm.
ii) Create two equilateral triangles, each of which has AB as a side.