THE INDIAN HEIGHTS SCHOOL

CLASS –VII
SUBJECT- Mathematics
REVISION WORKSHEET- Triangle and its Properties

NAME-   **DATE- 10.9.13**

Draw a rough figure using a scale and a pencil where ever required.

Q1 An exterior angle of a triangle DEF is of measure 70^0 and one of its interior opposite angles is of measure 25^0 .Find the measure of the other interior opposite angle.

Q2 The two interior opposite angles of an exterior angle of a triangle LMN are 60^0 and 80^0 .Find the measure of the exterior angle.

Q3 Two angles of a triangle XYZ are 30^0 and 80^0 .Find the third angle.

Q4 One of the angles of a triangle PQR is 80^0 and the other two angles are equal .Find the measure of each of the equal angles.

Q4 The three angles of a triangle ABC are in the ratio 1:2:1.Find all the angles of the triangle .Classify the triangle in two different ways.

Q5 Complete the sentence

(a)A triangle cannot have more than _____right angle.

(b) A triangle cannot have more than _____ obtuse angle.

(c)A triangle can have _____obtuse angle and _____acute angles.

(d)A triangle can have _____right angle and _____acute angles. The sum of the acute angles should be_____ .

Q6 If all the three angle of a triangle LMN are equal then find the measure of each angle.

Q7 One of the acute angles of a right angled triangle is 35^0. Find the measure of the other acute angle of the triangle.

Q8 Two angles of a triangle are equal and its third angle is double of the equal angle. Find the measures of the three angles of the triangle .

Q9 If one angle of a triangle is 100^0 and the other angles are in the ratio of 2:3, find the angles.

Q10 Which of the following triplets can be the angles of a triangle

(a)80^0 ,73^0 ,27^0 (b)90^0 ,80^0,30^0 (c) 57^0 ,61^0 , 62^0
(d)30^0,142^0,20^0

Q11 Give reason

(a)A triangle cannot have each angle greater than 60^0.

(b) A triangle can have each angle equal to 60^0.

(c) A triangle cannot have each angle less than 60^0.