**MATHEMATICS PROJECT 1ST TERM 2015-2016**

**CLASS: 7**

**TOPIC: CONSTRUCTION OF TRIANGLES**

**OBJECTIVE:** To identify a rule about the triangles from the triangles so constructed.

**PRE-ACQUIRED KNOWLEDGE:** The students are expected to generally define and thus construct a triangle. Hence, they should be able to construct the triangle from the data so given.

**PREPARATION:**

Construct the triangles as per the data given:

|  |  |
| --- | --- |
| Name of the triangle | To construct the triangle with the data so given |
| $$∆ABC$$ | $$∠A= 75^{O}, AB=6 cm, ∠B=60^{O}$$ |
| $$∆DEF$$ | $$∠D= 90^{O}, DE=7 cm, DF=6 cm$$ |
| $$∆PQR$$ | $$∠P= 90^{O}, PQ=5 cm, QR=4 cm$$ |
| $$∆XYZ$$ | $$∠Y= 105^{O}, YZ=6 cm, XZ=9 cm$$ |
| $$∆MNO$$ | $$∠M= 60^{O}, MN=4 cm, ∠N=60^{O}$$ |
| $$∆HIG$$ | $$HI=6 cm, IG=6 cm, HG=6 cm$$ |
| $$∆IJK$$ | $$∠I= 120^{O}, IJ=4 cm, ∠J=30^{O}$$ |

**PRESENTATION:**

Measure all the sides and angles of the above triangles and represent in a tabular form and in ascending order.

DID YOU NOTICE SOME RELATIONS OR SIMILARITY IN ALL THE DATAS?

**FIND A RULE ABOUT THE TRIANGLES FROM THE ABOVE OBSERVATIONS.**