SUBJECT: MATHEMATICS STD-VI

TOPIC- TRIANGLES

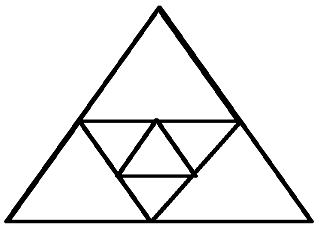
ASSIGNMENT (ADVANCE)

Mark the correct alternative in each of the following questions

1. Each angle of an equilateral triangle is _____
   (i) 45°
   (ii) 60°
   (iii) 90°
   (iv) 30°
2. If we will produce each side of a triangle , then the number of exterior angles produced is _____
   (i) 9
   (ii) 2
   (iii) 3
   (iv) 6

Answer the following questions.

3. Calculate the number of triangles in this figure.



4. Classify the triangle into acute triangle, obtuse triangle and right triangle with the following angles:

   (i) 60°, 75°

   (ii) 20°, 30°

5. Classify the triangle according to sides/ angles, that is, equilateral, isosceles and right-angled triangles:

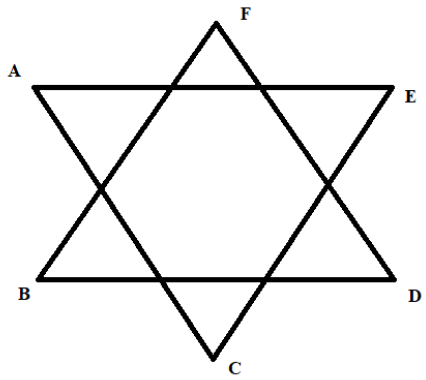
   (i) 10 cm, 8 cm, 6cm.

   (ii) 7cm, 24cm, 25cm

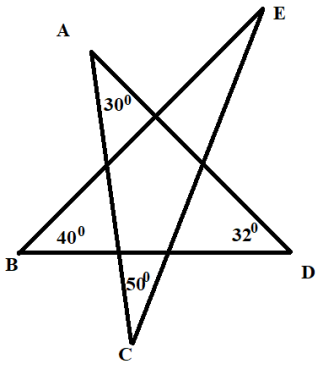
6. Is it possible to draw a triangle by taking the measurements 13cm, 10cm,

23cm assides? Justify your answer.

7. Find the sum of $\angle A, \angle B, \angle C, \angle D, \angle E \; and \; \angle F$ in he given figure



8. The angles of a triangle are in the ratio of 2: 3: 4. Find the measure of each angles of the triangle.
9. In this figure find $\angle E$



10. If $10°$ is subtracted from each angle of a triangle then the remaining angles are in the ratio $3: 4: 5$. Calculate the angles of the triangle.