

Triangle and its Properties: Worksheet -7

1. Verify whether a triangle can be drawn with following measures.

1) 3cm, 4cm, 5cm

2) 3cm, 2cm, 6cm

3) 2cm, 6cm, 6cm

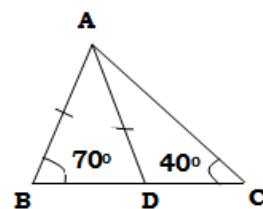
4) 5cm, 3cm, 8cm

2. In $\triangle ABC$, $\angle B = 30^\circ$ and $\angle C = 70^\circ$. Name the greatest side and the smallest side.

3. In $\triangle ABC$, $AB = 7.6$ cm, $BC = 6.9$ cm, $CA = 6.1$ cm. Name the greatest and the smallest angles.



4. In the adjoining figure, D is a point on BC of $\triangle ABC$ such that $AB = AD$, $\angle B = 70^\circ$ and $\angle C = 40^\circ$. Show that $AB > CD$.



5. In the adjoining triangle ABC, $AD \perp BC$. Prove that
 (i) $AB > BD$, (ii) $AC > CD$, (iii) $AB + AC > BC$

