

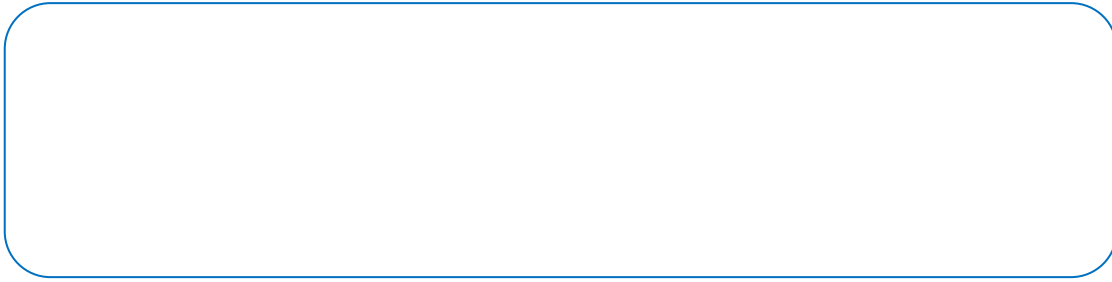
Properties of Triangles

1. In a $\triangle ABC$, $\angle A = 60^\circ$, $\angle B = 40^\circ$ find $\angle C$.

2. In a $\triangle ABC$, $\angle B = 75^\circ$, $\angle C = 40^\circ$ find $\angle C$.

3. Two angle of a right angled triangle add up to 130° , find the third angle.

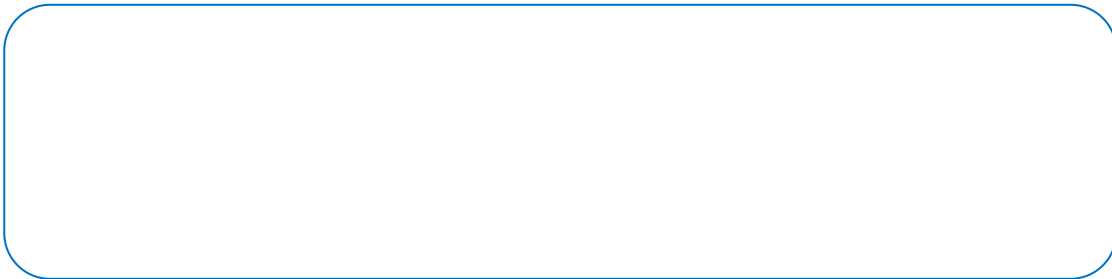
4. One of the two equal angles of an isosceles triangle measures 55° . Find the measures of all the three angles of the triangle.



5. If the unequal angle of an isosceles triangle is 70° , find all the angles of the triangle.



6. Find the measures of all the angles of an equilateral triangle.



7. Is it possible to have a triangle whose angles are?

- | | |
|------------------------------------|------------------------------------|
| a. $40^\circ, 65^\circ, 75^\circ$ | b. $40^\circ, 110^\circ, 30^\circ$ |
| c. $75^\circ, 100^\circ, 80^\circ$ | d. $50^\circ, 50^\circ, 98^\circ$ |

8. Is it possible to form a triangle by three line segments of the following lengths?

- | | |
|-------------------|-------------------|
| a. 8cm, 8cm, 8cm | b. 6cm, 8cm, 12cm |
| c. 4cm, 6cm, 11cm | d. 7cm, 7cm, 15cm |