

**Congruency of Triangles: Worksheet -1**

1. The number of line segments in a triangle is \_ \_ \_ \_ \_
2. If the ratio of the angles of a triangle is  $3 : 4 : 7$ , then it is a \_ \_ \_ \_ \_ triangle.
3. If the ratio of the angles of a triangle is  $3 : 4 : 5$ , it is \_ \_ \_ \_ \_ triangle.
4. In an isosceles triangle the vertical angle is  $70^\circ$ . Then each of the base angles is \_ \_ \_ \_ \_
5. In an isosceles triangle each of the base angles is  $50^\circ$ . The vertical angle is \_ \_ \_ \_ \_
6. In a triangle two angles are  $40^\circ$  and  $70^\circ$ . Then it is \_ \_ \_ \_ \_ triangle.
7. Two angles of a triangle are  $60^\circ$ ,  $60^\circ$ . Then it is \_ \_ \_ \_ \_ triangle.
8. In  $\triangle ABC$ ,  $\angle A = 90^\circ$ . The hypotenuse is \_ \_ \_ \_ \_
9. Two figures in a plane are congruent if they have the same \_ \_ \_ \_ \_
10.  $\triangle ABC$  and  $\triangle PQR$  are congruent if  $AB = PQ$ ,  $AC = PR$  and \_ \_ \_ \_ \_
11. Two circles are congruent if they have the same \_ \_ \_ \_ \_

