Triangle and its Properties: Worksheet -1

1. The sum of the three angles of a triangle is _ _ _ _ _ _ _ _ _ right angles.

2. If one of the angles of a triangle is 90^0, it is a _ _ _ _ _ _ _ _

3. In a right triangle the sum of the two acute angles is _ _ _ _ _ _ _ _

4. If the sum of two angles of a triangle is equal to the third angle, it is a _ _ _ _ _ _

5. If the ratio of the angles of a triangle is 3 : 4 : 7, then it is a _ _ _ _ _ _ _ triangle.

6. In an isosceles triangle the vertical angle is 70^0. Then each of the base angles is _ _ _ _ _ _

7. In an isosceles triangle each of the base angles is 50^0. The vertical angle is _ _ _ _ _ _ _

8. In a triangle two angles are 40^0 and 70^0. Then it is _ _ _ _ _ _ _ triangle.

9. Two angles of a triangle are 60^0, 60^0. Then it is _ _ _ _ _ _ _ _ _ triangle.

10. In $\triangle$ ABC, $\llcorner$A = 90^0. The hypotenuse is _ _ _ _ _ _ _ _

11. In $\triangle$ ABC, $\llcorner$A = 50^0, $\llcorner$B = 60^0, $\llcorner$C = 70^0, AB is produced to D. Then $\llcorner$CBD = _ _ _

12. The exterior angle of an equilateral triangle is _ _ _ _ _ _ _ _ _ _

13. In $\triangle$ ABC, BC is produced to D. If $\llcorner$ACD = 130^0 and $\llcorner$A = 50^0, then $\llcorner$B = _ _ _

14. The base angles of an isosceles triangle can be _ _ _ _ _ _ _ _ _

15. In $\triangle$ ABC, AB = AC and $\llcorner$B =50^0. BA is produced to D. $\llcorner$CAD = _ _ _ _