Triangles : Worksheet -3

1. In ΔABC and ΔRST, AB:ST = BC:TR = CA:RS then pair of congruent angles are _ _ _ _ _ _ _ _ _ _ _

2. The point of intersection of angular bisectors of a triangle is called _ _ _ _ _ _ _ _ _

3. The angles of a triangle are in the ratio of 1:2:3 then the ratio of their sides is _ _ _

4. In ΔABC,XY is parallel to BC , AX:XB = 2:1 then, as ΔAXY : as ΔABC = _ _ _ _ _ _ _

5. The ratio of the point of trisection is _ _ _ _ _ _ _ _ _ _

6. In ΔABC, D, E are midpoints of AB and AC. DE : BC = _ _ _ _ _ _ _ _ _

7. In ΔABC, the bisector $\angle A$ intersects $\overline{BC}$ in D. If BD : DC = 4 : 7 and AC : 3.5 cm , then AB =_ _ _ _ _ _ _ _ _ _

8. ΔABC ~ ΔPQR. If AB = 6; BC = 4 ; AC = 8 and PR = 6 Then

    PQ +QR= _ _ _ _

9. The corresponding sides of two similar triangles are in the ratio a : b. The ratio of their areas is _ _ _ _ _ _ _ _ _ _

10. In ΔABC, $\angle$B = 90°and BD is the altitude BD^2 = _ _ _ _ _ _ _ _ _ _ _