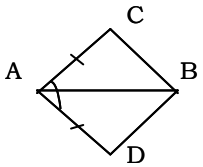
16.08.19 EVERWIN VIDHYASHRAM Marks: 25
STD: IX PERIODIC ASSESSMENT- II Time: 1hr
MATHS T.T

I. Answer the following: 4x1=4
1. The symbol for congruence is ____.
2. Two circle are congruent. If the diameter of one circle is 2cm, then the radius of the other circle is _____.
3. The Sum of the three altitudes of a triangle is _____ the perimeter of the triangle.
4. In any triangle ABC, $\angle A > \angle B$ and $\angle B > \angle C$, then the smallest side is ____.

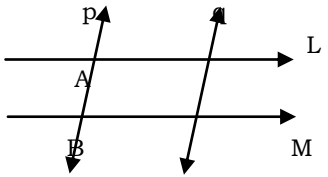
II. Answer the following: 2x2=4
5. Define SAS congruence rule?
6. Define RHS congruence rule?

III. Answer the following: 3x3=9
7. In quadrilateral ABCD, AC = AD and AB bisects $\angle A$. Show that $\Delta ABC \cong \Delta ABD$. What can you say BC and BD?



8. Prove that "Angles opposite to equal sides of an isosceles triangle are equal".
9. BE and CF are two equal altitudes of a triangle ABC. Using RHS Congruence rule, Prove that the triangle ABC is isosceles.

IV. Solve: 4x2=8
10. L and M are two parallel lines intersected by another pair of parallel lines P and Q. Show that $\Delta ABC \cong \Delta CDA$.



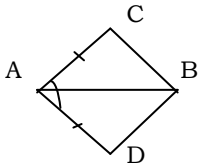
11. Show that the angles of an equilateral triangle are 60° each.

16.08.19 EVERWIN VIDHYASHRAM Marks: 25
STD: IX PERIODIC ASSESSMENT- II Time: 1hr
MATHS T.T

I. Answer the following: 4x1=4
1. The symbol for congruence is ____.
2. Two circle are congruent. If the diameter of one circle is 2cm, then the radius of the other circle is _____.
3. The Sum of the three altitudes of a triangle is _____ the perimeter of the triangle.
4. In any triangle ABC, $\angle A > \angle B$ and $\angle B > \angle C$, then the smallest side is ____.

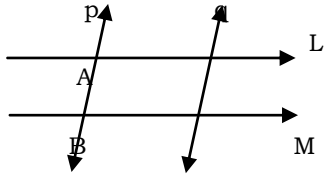
II. Answer the following: 2x2=4
5. Define SAS congruence rule?
6. Define RHS congruence rule?

III. Answer the following: 3x3=9
7. In quadrilateral ABCD, AC = AD and AB bisects $\angle A$. Show that $\Delta ABC \cong \Delta ABD$. What can you say BC and BD?



8. Prove that "Angles opposite to equal sides of an isosceles triangle are equal".
9. BE and CF are two equal altitudes of a triangle ABC. Using RHS Congruence rule, Prove that the triangle ABC is isosceles.

IV. Solve: 4x2=8
10. L and M are two parallel lines intersected by another pair of parallel lines P and Q. Show that $\Delta ABC \cong \Delta CDA$.



11. Show that the angles of an equilateral triangle are 60° each.