Name: _____	**Subject:** Math	**Class:** 9th	**Time:** 60 minutes	Total Marks:	**30**
Unit Number: 12	**MJDexpert.com**			Obtained marks	

Q#1	**Circle the correct option**		**1×8=8**
1. The right bisectors of sides of triangle are:			
a) Concurrent	b) Congruent	c) Parallel	d) Perpendicular
2. The center of a circle is on the right bisectors of each of its :			
a) Chord	b) Diameter	c) Arc	d) None
3. Bisection means to divide into_____ equal parts:			
a) Two	b) Three	c) Finite	d) Infinite
4. The right bisectors of the sides of acute triangle intersect each other ____ the triangle:			
a) Inside	b) Outside	c) Both a and b	d) None of these
5. The right bisector of ____ triangle intersect each other at hypotenuse.			
a) Acute	b) Obtuse	c) Right Angle	d) Isosceles
6. The right bisector of obtuse triangle intersect each other _____ the triangle:			
a) Inside	b) Outside	c) Both a and b	d) None of these
7. Line segment has end points:			
a) One	b) Two	c) Three	d) Infinite
8. A ____ is called right bisector of angle:			
a) Ray	b) Line	c) Line segment	d) None

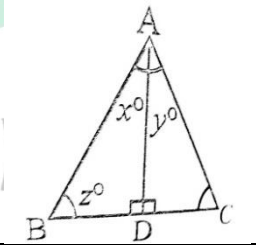
Q#2 **Attempt all the short questions** **2×5=10**

i. Define line segment.

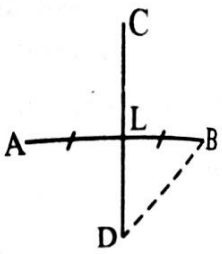
ii. Define right bisector of line segment

iii. Define right bisector of angle:

iv. If the given triangle ABC is equilateral triangle and $\overline{AD}$ is bisector of angle A, then find the values of unknown $x°$, $y°$ and $z°$.



v. $\overline{CD}$ is right bisector of the line segment $\overline{AB}$. If $m\overline{AB} = 6cm$, then find $\overline{mAL}$ and $\overline{mLB}$



Q#3 **Write detailed answer of the following questions** **4+8=12**

a) In the given congruent triangles LMO and LNO, find the unknown x and m.

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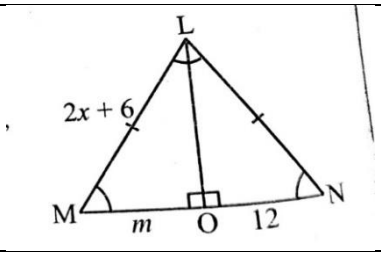

b) Prove that any point equidistance from the end points of a line segment is on the right bisector of it.