Name: _____		**Subject:** Math	**Class:** 9th	**Time:** 60 minutes	Total Marks:	**30**
Unit Number: 13		MJDexpert.com			Obtained marks	

Q#1	Circle the correct option	1×8=8

1. The angle opposite to the longer side of a triangle is:

a) Greater	b) Smaller	c) Parallel	d) Perpendicular

2. In a right-angled triangle, angles other than right angle are each of:

a) 45°	b) 90°	c) 180°	d) 360°

3. A triangle having two sides congruent is called:

a) Isosceles	b) Equilateral	c) Scalene	d) Right Angled

4. A _____ from a point to line is the shortest distance:

a) Perpendicular	b) Parallel	c) Both a and b	d) None of these

5. Sum of two sides of triangle ____ than the third side:

a) Greater	b) Smaller	c) Equal	d) None

6. The distance between a line and a point on it:

a) Zero	b) One	c) Two	d) Infinite

7. In a scalene triangle , the angle opposite to the largest side is of measure greater than ___ of right-angle

a) One-third	b) Two- third	c) Half	d) None

8. The ____ of a triangle is greater than other two sides

a) Hypotenuse	b) Base	c) Perpendicular	d) Altitude

Q#2	Attempt all the short questions	2×5=10
i.	What will be the angle for shortest distance from a point outside the line?	
ii.	If 13cm, 12cm, and 5cm are the lengths of triangle then verify that difference of measure of any two sides of triangle is less than the measure of third side.	
iii.	If 10cm, 6cm, and 8cm are the lengths of triangle then verify that sum of measure of any two sides of triangle is greater than the measure of third side.	
iv.	3cm and 4cm are not the lengths of the triangle. Give the reason.	
v.	Which of the sets of length $2cm, 3cm, 5cm$ and $3cm, 4cm, 5cm$ can be lengths of the sides of a triangle?	

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

a) If 3cm and 4cm are lengths of two sides of right angle triangle, then what should be the third length of triangle.

b) Prove that the right bisectors of sides of triangle concurrent.