	HIK	SHA		SSES
Subject : Geometry Class : X	QUESTION PAPER 2. Pythagoras theorem			<b>Total Marks</b> : 20 <b>Time</b> : 1 Hour.
Q. 1 A) Choose the correc	ct alternative fi	rom objectives	given below.	(2)
1) In $\triangle ABC$ , M is	the midpoint of	side BC. If AB <sup>2</sup>	$^{2}+AC^{2}=410cm^{2}a$	nd BC = $12$ cm,
then what is the leng	gth of median AN	Л?		
a) 6cm	b) 6.5cm	c) 12cm	d) 13cm	· · · · · · · · · · · · · · · · · · ·
2) What is the length of hypotenuse of a right angled triangle, if length of sides				
forming right angle are 9cm and 12cm?				
a) 13cm	b) 8cm	c) 15cm	d) 14cm	
Q. 1 B) Solve any one the following questions: (1)				
1) In $\Delta$ LMN, $\ell$ =5, m=13, n=12. State whether $\Delta$ LMN is a right angled triangle or not.				
2) Find the side of a square whose diagonal is 10cm.				
Q. 2 : A) Attempt any one of the following question.				(2)
1) The hypotenuse of an isosceles right angled $\triangle ABC$ is $8\sqrt{2}$ cm. Find BC.				
2) Find the diagonal of a rectangle whose length is 35cm and breadth is 12cm.				
$\rightarrow$ Diagonal of rectangle divides in two right angled triangle.				
= +[:: Pythagorus theorem]				
$=12^2+35^2$			A	В
=144+122	25			
=1369			+	=
AC =	]		D	
: Diagonal at rectengle is cm.				



