STD: 10 th Marks:20		1 st Unit Test		Sub – Math 2 Time: 1 Hr.
Q1. Solve the fol 1) The ratio of co	l owing rresponding sides of si	milar triangles is 3:	5; then find the r	(4 Marks) atio of their areas.
(A) 3:5	(B) 3:25	(C) 9:25	(D) 9:5	
$2 \triangle ABC \sim \triangle PC$	QR. If $AB = 4$ cm, PQ	= 6 cm and QR = 9	cm then find BC	?
(A) 2	(B) 4	(C) 5	(D) 6	
3) Out of the follo	wing which is the Pytl	hagorean triplet?		
(A) (1, 5, 10)	(B) (3, 4, 5)	(C) (2, 2, 2)	(D) (5, 5, 2))
4) Out of the follo	wing which is not the	Pythagorean triplet	?	
(A) (12, 5, 15)	(B) (10, 24, 26)	(C) (12, 1	16, 25)	(D) (15, 17, 8)
Q2. Solve the following 1) In figure, seg AB \perp seg BC and seg DC \perp seg BC.				(4 Marks)
if $AB = 3$ cm and	CD = 4 cm then	В	c	
$\frac{A(\triangle ABC)}{A(\triangle DBC)} = ?$			D	

2) Base of a triangle is 9 and height is 5. Base of another triangle is 10 and height is 6. Find the ratio of areas of these triangles.

3) In right angled triangle PQR, Hypotenuse PR = 12 and side PQ = 6, then find the measure of $\angle P$

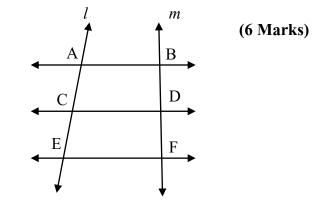
4) Find the diagonal and perimeter of a square whose side is 10 cm.

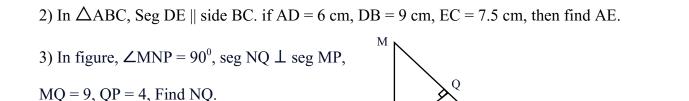
Q3. Solve the following (Any 3)

1) In figure, line AB || line CD || line EF,

line *l* and line *m* are transversal. If AC = 6,

CE = 9, BD = 8 then Find DF.





4) Find the side of a square whose diagonal is $12\sqrt{2}$ cm

Q4. Solve the following (Any 2)

1)In $\triangle ABC$, seg PQ intersect to side AP at point P and intersect to side AC at Q. seg PQ || seg BC. If PQ divide $\triangle ABC$ in two equal areas Then find, $\frac{BP}{AB}$ A

N

(6 Marks)

В

2) Prove That: If a line parallel to a side of a triangle intersects the remaining sides in two distinct points, then the line divides the sides in the same proportion.

3) In \triangle PQR, Point S is midpoint of side QR. If PQ = 11, PR = 17, PS = 13 then find QR