

FIRST MID TERM EVALUATION JULY : 2016 -'17

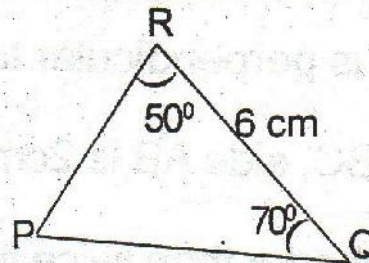
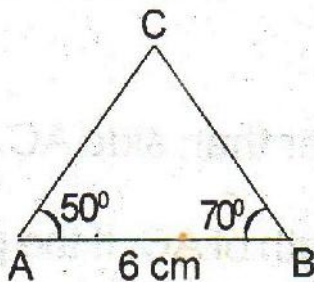
Std.VIII

MATHEMATICS

Time: 45 mts
Total Score: 20

1 $\triangle ABC$ and $\triangle PQR$ are given below.

i) Find matching sides and write their names.

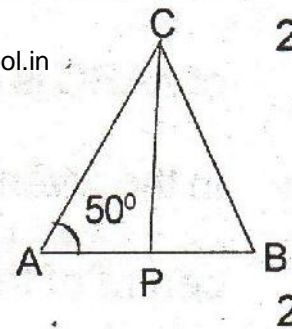


ii) Find the equal angles also.

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2 In the figure below, P is the midpoint of AB and CP is perpendicular to AB.

Compute the other two angles of $\triangle ABC$.



3 The sum of a number and 1 added to it multiplied by 2 is 10. Find the number. 2

4 The sum of three consecutive odd numbers is 63. Find the numbers. 2

5 There are male and female members in a co-operative society. The number of men is twice that of women. When 29 women and 10 men join the society, the number of men and women becomes equal. How many men were there in the society first? What is the total number of members now? 3

6 In $\triangle ABC$, $AB = AC$. The bisector of $\angle A$ meets BC at D .
Draw a suitable diagram. Prove that.

a) $\triangle ABD$ and $\triangle ACD$ have equal angles.

b) AD is perpendicular to BC .

3

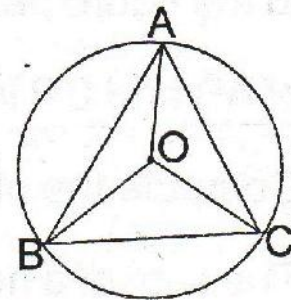
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7 In $\triangle ABC$, side AB is 2cm longer than side AC . BC is

5cm shorter than twice the length of AC . If the perimeter

of $\triangle ABC$ is 49cm, find the length of the sides of $\triangle ABC$. 3

8 In the given figure, O is the
centre of the circle. $\angle AOC$, $\angle BOC$
and $\angle AOB$ are equal.



What are the angles of $\triangle ABC$? What type of triangle is

$\triangle ABC$?

3