<u>**QUESTION – 1**</u>

Numbers from 1 to 25 are written on slips of paper and put in a box . A slip is to be

 drawn from it .

a) What is the probability that the number written in it is an even number   ?

b) What is the probability that the number written in it is an odd number ?

c) What is the probability that the number written in it is a perfect square ?

<u>**QUESTION –2**</u>

A bag contains 20   black   and   30 red beads . Take one bead from this

 a) What is the probability of getting a black bead ?

 b) What is the probability of getting a red bead ?

 c) How many more black beads are to be put in the box to make the probability of

   getting a red bead is $\dfrac{1}{2}$?

<u>**QUESTION – 3**</u>

A box contains four slips numbered   1 , 2 , 3 , 4   and another box contains four slips

 -1 , -2 , -3 , -4 . One slip is taken from each box .

a) How many pairs of slips are there ?

b) What is the probability of the sum of the numbers being zero ?

c) What is the probability of the sum of the numbers being positive ?

d) What is the probability of the sum of the numbers being negative ?

QUESTION – 4

In the figure a square is drawn with all the vertices on the circle .

Put a dot in this figure without looking .

a) If the side of the square is taken as $2x$, what is the diameter

of the circle ?

b) What is the probability that the dot would be within the square ?

c) What is the probability that the dot would be outside the square ?
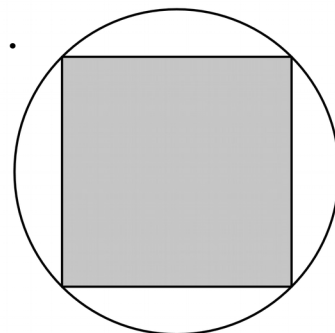
QUESTION – 5

In the figure P, Q , R are the midpoints of the sides of

the triangle ABC . Put a dot in this figure without looking .

a) If BC = 10 centimetres , what is the length of PR ?

b) Check whether the sides of the triangle BPQ are

equal to the sides of the triangle PQR or not .

c) Find three triangles having the area same as that of the triangle PQR ?

d) What is the probability that the dot would be within the triangle PQR ?

e) What is the probability that the dot would be outside the triangle PQR ?
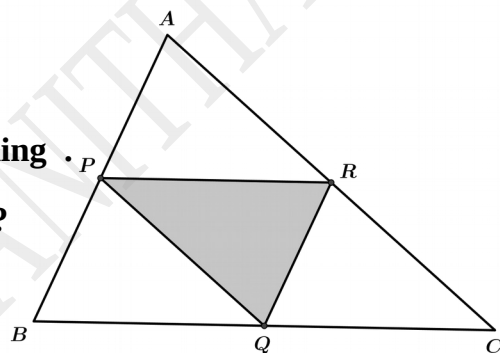
QUESTION - 6

In class 10 A there are 30 boys and 20 girls .In class 10 B there are 40 boys and 30 girls .

One student is to be selected from each class .

a) In how many different ways we can select a pair of students ?

b) What is the probability of both being girls ?

c) What is the probability of getting one boy and one girl ?

d) What is the probability of getting at least one girl ?