40) Three coins are tossed simultaneously 200 times and the outcomes are shown below.

Out come	3 heads	2 heads	1 heads	no head
Frequency	23	72	77	28

Find the probability of getting ,

(i) exactly 2 heads (ii) at least one head (iii) at most one head

41) M C Q :

1) Length of the longest rod that can be kept in a cuboidal room of dimensions 10 m x 10 m x 5 m is

[A) 5 m B) 10 m C) 15 m D) 12 m]

2) Volume of a cube is 1000 cm^3. Its surface area is

[A) 400 cm^2 B) 100 cm^2 C) 600 cm^2 D) 6000 cm^2]

3) Volume of a hemisphere is 88 $\sqrt{21}$ cm^3. Its radius is

[A) 21 cm B) $7\sqrt{3}$ cm C) $3\sqrt{7}$ cm D) $\sqrt{21}$ cm]

4) Which of the following is not true for a parallelogram ?

[A) opposite sides are equal B) opposite angles are equal

C) opposite angles are bisected by diagonals D) diagonals bisect each other]

5) The ratio of the angles a quadrilateral is 3 : 7 : 6 : 4 , then the quadrilateral is a

[A) Trapezium B) Parallelogram C) Rhombus D) Kite]

6) O is the center of the circum circle of $\triangle ABC$ and $\angle OAB = 40^0$ then $\angle ACB$ =

[A) 40^0 B) 20^0 C) 100^0 D) 50^0]

7) AD is the diameter of a circle of radius 17 cm and AB is a chord of the same circle of length 30cm. Then distance of AB from the center of the circle is

[A) 17 cm B) 15 cm C) 4 cm D) 8 cm]

8) Graph of the linear equation ax + by + c = 0 is a straight line passing through the origin if

[A) a = b = c B) a = b C) a = b = 0 D) c = 0]

9) If a linear equation has (-3 , 3) , (0 , 0) and (1, - 1) as three of its infinite solutions. Then it is of the form

[A) -3x + y = 0 B) x + y = 0 C) y - x = 0 D) x + y + 3 = 0]