BCM SCHOOL, BASANT AVENUE, DUGRI, LUDHIANA.
MAY ASSIGNMENT(2026-27)
CLASS- IX (MATHEMATICS)
TOPIC: THE WORLD OF NUMBERS;ORIENTING YOURSELF: THE USE OF COORDINATES; THE MATHEMATICS OF MAYBE: INTRODUCTION TO PROBABILITY

	SECTION -A (1 MARK QUESTIONS)
1.	Amit's school is 5 km to the west and 3 km north of his house. He represented his house and his school on a coordinate grid, with his house located at the origin, and the positive x- axis represent the direction that is east of his house. If 1 unit on the co-ordinated grid represents 1 km, What will be the coordinate of his school? (A) (5,3) (B) (3,5) (C) (-5,3) (D) (-3,5)
2.	Which of the following is a rational number? (A) $\sqrt{81}$ (B) $\sqrt{7}$ (C) $\sqrt{32}$ (D) π
3.	Assertion (A): If a die is thrown 10 times and "5" never comes up, the experimental probability of getting a "5" for this specific set of trials is 0. Reason (R): The experimental probability of an event is based on what has actually happened during an experiment. (A) Both Assertion (A) and Reason (R) are the true and Reason (R) is a correct explanation of Assertion (A). (B) Both Assertion (A) and Reason (R) are the true but Reason (R) is not the correct explanation of Assertion (A). (C) Assertion (A) is true but Reason (R) is false. (D) Assertion (A) is false and Reason (R) is true.
	SECTION -B (2 MARKS QUESTIONS)
4.	Represent $\sqrt{17}$ on the number line.
5.	Are the points M(-3,-4), A(0,0) and G(6,8) lie on the same straight line? Suggest a method to check this without plotting and joining the points.
	SECTION -C (3 MARKS QUESTIONS)
6.	Convert 2.4537373737…….. into the form of p/q.
7.	A card is drawn at random from a pack of 52 playing cards. Find the probability that the card drawn is (a) A red face card (b) A king or a queen (c) A black of heart

	(d) A jack of spade (e) An ace (f) A king and a diamond
8.	The midpoints of the sides of ΔABC are the points D,E and F. Given that coordinates of D, E and F are (5,1), (6,5) and (0,3), respectively, find the coordinates of A,B and C.
SECTION -D (5 MARKS QUESTIONS)	
9.	Two dice are thrown simultaneously. What is the probability that: (A) The sum of the numbers is a prime number? (B) The product of the numbers is a perfect square? (C) The difference between the numbers is 3? (D) of getting doublet? (E) The sum of numbers is 13?
SECTION -E (4 MARKS QUESTIONS)	
10.	A teacher uses an interactive whiteboard to play a "Point Hunter" game. A point M is plotted on the screen. The teacher gives the following clues: he point M is 5 units away from the y-axis in the positive direction. The point M is 3 units away from the x-axis in the negative direction. (A) What are the coordinates of point M? (B) If point M is reflected across the x-axis to become point M', what are the coordinates of M'? (C) What is the value of the abscissa of point M? (D) What is the coordinate of a point K that lies on the y-axis and has the same y-coordinate as point M?