

## **B.K. BIRLA CENTRE FOR EDUCATION**



SARALA BIRLA GROUP OF SCHOOLS A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

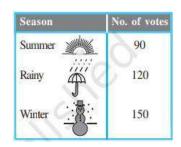
## **PERIODIC TEST – 2 (2025) MATHEMATICS**

Class: VIII	Duration: 1 Hr
Date : 10-11-2025	Max. Marks: 25
Admission No.:	Roll No.:

## **General Instructions:**

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2.	There are 13 ques	stions.				
I.	CHOOSE THE C	ORRECT ALTERNATIVE II	N THE FOLLOWING.		5	
1.	1. Marks obtained by 20 students of class VIII in Maths test are:					
	24, 18, 14, 13, 12	2, 20, 24, 21, 17, 14, 7,	8, 19, 22, 13, 18, 23, 4	4, 21, 20.		
	Range of the abo	ve data				
	a) 20	b) 4	c) 3	d) None of t	hese	
2.	2. The probability of getting a prime number on rolling a die is:					
	a) $\frac{2}{3}$	b) $\frac{1}{3}$	c) $\frac{1}{2}$	d) $\frac{3}{4}$		
3	The product of 1	3	. 2	4		
٥.			c)90 x <sup>3</sup> y	d) 75 <i>x y</i>		
		,	, ,	, , ,		
4.		ving, the two expressions		d) 7v and 7vv		
5	a) 7x and 7y The value of $x^2$	b) 7x and 9x $4x + 3$ when $x = 1$ is :	c) 7x and 7x <sup>2</sup>	d) 7x and 7xy		
٦.				٦) ٥		
	a) 1	b) 2	c) -2	d) 0		
II.	SOLVE THE FO	DLLOWING				
6.	Simplify: $7x (6x)$	(-8) + 15 and find its	value when $x = 3$		2	
7.	a) Subtract : 4 a –	7a b + 3b + 12 from 12	a -9ab + 5b – 3		2	
	b) Add . 2 m 2 m 2	<sup>2</sup> – 3 p a + 4, 8 + 7pa + 8	0 - 2 - 2			
	b) Add:2p-q-	3 p q + 4, 8 + /pq + 6	8 p - q -			
8. /	A group of 360 peop	le were asked to vote fo	r their favourite season	from the three		
	seasons: rainy, win				2	
	(i) Which season go	t the most votes? (ii) Fin	d the central angle of e	ach sector.		



- 9. A box contains 5 red marbles, 8 white marbles, and 4 green marbles. What is the probability of drawing a white marble?
- 2 3
- 10. Simplify: a)(x + y)(2x + y) + (x + 2y)(x y)
  - b) Find the product of : 2, 4y , 8 y  $^2$  , 16 y  $^3$
- 11. Simplify: i) (2x + 5)(4x 3)ii) (x + 7y)(7x - y)
- 12. Numbers 1 to 10 are written on ten separate slips (one number on one slip), kept in a box and mixed well. One slip is chosen from the box without looking into it. What is the probability of3
  - (i) Getting a number 6? (ii) Getting a number less than 6?
  - (iii) Getting a 1-digit number?
- 13. Represent the following data by a pie chart

3

Source of energy	Electricity	Solar	Gas	Oil
No . of houses	20	10	12	6

\*\*\*\*\*\* ALL THE BEST \*\*\*\*\*\*\*