



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
Date : 10-11-2025
Admission No.:

Duration: 1 Hr
Max. Marks: 25
Roll No.:

General Instructions:

1. All Questions are compulsory.
2. There are 13 questions.

I. CHOOSE THE CORRECT ALTERNATIVE IN THE FOLLOWING.

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1. Marks obtained by 20 students of class VIII in Maths test are :
24, 18, 14, 13, 12, 20, 24, 21, 17, 14, 7, 8, 19, 22, 13, 18, 23, 4, 21, 20.
Range of the above data
a) 20 b) 4 c) 3 d) None of these
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 $18x^2y$ and $-5x$ is
a) $105x^2y$ b) $90x^3$ c) $-90x^3y$ d) $75xy$
4. Which of the following, the two expressions are like terms?
a) $7x$ and $7y$ b) $7x$ and $9x$ c) $7x$ and $7x^2$ d) $7x$ and $7xy$
5. The value of $x^2 - 4x + 3$ when $x = 1$ is :
a) 1 b) 2 c) -2 d) 0

II. SOLVE THE FOLLOWING

6. Simplify : $7x(6x - 8) + 15$ and find its value when $x = 3$ 2
7. a) Subtract : $4a - 7ab + 3b + 12$ from $12a - 9ab + 5b - 3$ 2
b) Add : $2p^2q^2 - 3pq + 4, 8 + 7pq + 8p^2q^2$
8. A group of 360 people were asked to vote for their favourite season from the three seasons : rainy, winter and summer. 2
(i) Which season got the most votes? (ii) Find the central angle of each sector.

Season	No. of votes
Summer 	90
Rainy 	120
Winter 	150

9. A box contains 5 red marbles, 8 white marbles, and 4 green marbles. What is the probability of drawing a white marble? **2**
10. Simplify : a) $(x + y)(2x + y) + (x + 2y)(x - y)$ **3**
b) Find the product of : $2, 4y, 8y^2, 16y^3$
11. Simplify: i) $(2x + 5)(4x - 3)$ **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 of **3**
(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 *****