



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



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

## PRE-MID TERM-1 (2025-26) MATHEMATICS (041) ANSWER KEYS

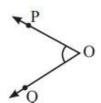
s: V :: 08.08.2025 nission no:		Time: 1hr Max Marks: 25 Roll no:	
Questions 1 to 5 a Questions 6 to 9 a	re 1 mark each. re of 2 marks each		
2		SECTION-A	$(5\times 1=5)$
Choose the co	rrect answer.		
1) Which of the f	Collowing has no e	nd points?	
a) <b>a line</b> 2) The measure of	, -	· · · · · · · · · · · · · · · · · · ·	d) None of these
a) 180 <sup>0</sup> 3) Number which	,	,	d) None of these
<ul><li>a) 0</li><li>4) Which list sho</li></ul>	<b>b) 1</b> ws multiples of 4?	c) 2	d) None of these
a) <b>4,8,12,16</b>	b) 4,8,22,18	c) 21,4,8,9	d) None of these
5) Every factor of	a number is	tl	he number.
a) greater than or equal to		b) less than or equal	l to
c) greater than		d) None of these	
		SECTION- B	$(4\times2=8)$
6) Write the factors of 20. Factors of 20 = 1, 2, 4, 5, 10, and		nd 20(	(2)
7) Use the factor tree method to write the prime factorise			ion of 90
90	of 90		
	c: 08.08.2025 cission no:  eral Instructions: General Instructio Questions 1 to 5 a Questions 6 to 9 a Questions 10 and  Choose the co 1) Which of the f a) a line 2) The measure of a) 1800 3) Number which a) 0 4) Which list sho a) 4,8,12,16 5) Every factor of a) greater than c) greater than 6) Write the factor Factors of 20 7) Use the factor	eral Instructions:  General Instructions:  Questions 1 to 5 are 1 mark each.  Questions 6 to 9 are of 2 marks each.  Questions 10 and 13 are of 3 marks  Choose the correct answer.  1) Which of the following has no e a) a line b) a ray  2) The measure of a right angle is a) 1800 b) 3600  3) Number which is neither prime is a) 0 b) 1  4) Which list shows multiples of 45 a) 4,8,12,16 b) 4,8,22,18  5) Every factor of a number is a) greater than or equal to c) greater than  6) Write the factors of 20. Factors of 20 = 1, 2, 4, 5, 10, and  7) Use the factor tree method to with the factor t	eral Instructions:  General Instructions:  Questions 1 to 5 are 1 mark each.  Questions 6 to 9 are of 2 marks each.  Questions 10 and 13 are of 3 marks each.  SECTION-A  Choose the correct answer.  1) Which of the following has no end points?  a) a line b) a ray c) a line segment  2) The measure of a right angle is  a) 1800 b) 3600 c) 900  3) Number which is neither prime nor composite is a) 0 b) 1 c) 2  4) Which list shows multiples of 4? a) 4,8,12,16 b) 4,8,22,18 c) 21,4,8,9  5) Every factor of a number is a) greater than or equal to c) greater than d) None of these  SECTION-B  6) Write the factors of 20. Factors of 20 = 1, 2, 4, 5, 10, and 20.  (7) Use the factor tree method to write the prime factorisate of 90  Factor Tree of 90

The prime factorization of 90 using the factor tree method is 2 x 3 x 3 x 5	_ (2)
8) Write the name of all the line segments shown in Fig.	

Here are all the line segments (sides) in the quadrilateral PQRS:

Sides: PQ, QR, RS, SP

9) Name the arms and vertex of each of the following angles



For the angle  $\angle PQR$ 

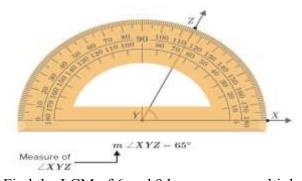
O — this is the point at which the two rays meet.

Vertex: O \_\_\_\_\_(1)

Arms: OP and OR \_\_\_\_\_(1)

SECTION- C  $(4 \times 3 = 12)$ 

10) Construct an angle XYZ of measure 65° with the help of a protractor. \_\_\_\_\_(3)



11) Find the LCM of 6 and 9 by common multiples.

List multiples of each number:

Multiples of 6: 6, 12, 18, 24, 30, ... (1)

Multiples of 9: 9, 18, 27, 36, ... (1)

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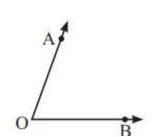
Identify common multiples: 18, 36, 54, ...

Pick the smallest of these: 18 (LCM) \_\_\_\_\_(1)

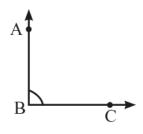
11) Tick the correct cell of the table by checking the divisibility of the given numbers (½ mark for each correct answer)

S.No.	Numbers	2	3	5	10
1	2430		V	V	V
2	83505		V	V	

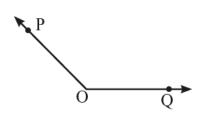
- 12) Identify types of angles of the following figures.
  - a) Acute angle



b) Right angle



c) Obtuse angle



(1 mark for each correct answer)