





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

TERM-1 EXAMINATION (2025-26) MATHEMATICS

Class: VI	Time: 3 hrs.
Date: 05.09.25	Max Marks: 80
Admission no:	Roll no:

General Instructions:

- sists of FIVE

All	All answers must be correctly numbered as in the question paper and written in the answer sheet. Write neatly and draw diagrams wherever necessary.							
	Choose the corr		Section A	$1 \times 20 = 20$				
1.	What type of number (a) Even number (c) Prime number	()	nence 2, 4, 6, 8, Odd numbers Square numbers	. represent?				
2.	Which number s (a) Triangular nu (c) Cube number		oy adding consecu Square numbers Powers of 2	tive odd numbers?				
3.	What is the 5th t (a) 125	term of the cube nur (b) 64	nbers sequence? (c) 36	(d) 100				
4.		one symbol can rep (b) only one						
5.	Which of the fol (a) 49	lowing is a prime no (b) 51	umber? (c) 53	(d) 55				
6.	What is the first (a) 10	common multiple o	of 3 and 5? (c) 15	(d) 20				
7.	The numbers where (a) odd	nich are not multiple (b) even	es of 2 are known (c) prime					
8.	Every number has (a) only 2	as a numl (b) only 4	ber of factors (c) infinite	(d) finite or limited				
9.	An angle of exact (a) right	etly 90° is called a _ (b) straight	angle. (c) obtuse	(d) acute				
10.	. An angle bisector (a) 2	or divides an angle in (b) 4	nto equal p					

	A ray starts at one (a) same	e point and extends (b) opposite		ection. (d) many	
12.	Which of the follo	owing is a 3-digit palin	drome that can	be formed using the digits	
		(b) 122	(c) 123	(d) 132	
13.		owing numbers has dig	•		
	(a) 85	(b) 67	(c) 59	(d) 92	
14.		ated difference of 812		(4)	
	(a) 200	(b) 250	(c) 300	(d) 350	
15.	Which pair of number (a) 12 and 18	mbers is co-prime? (b) 14 and 21	(c) 10 and 20	(d) 8 and 9	
16.	If I unit length re bar of heights 6 u	-	ow many vehic	eles are represented by a	
	(a)60	(b) 600	(c) 10	(d) 100	
17.	spacing between	them.		ntally or vertically with	
	(a) Unequal	(b) equal (c) dif	ficult (d) nor	ne of these	
18.	(a) 5-digit number(b) 5-digit number(c) 5-digit number	owing sets of numbers $er = 21,000, 3$ -digit number $er = 20,000, 3$ -digit number $er = 22,000, 3$ -digit number $er = 24,000, 3$ -digit number $er = 24,000,$	mber = 539 mber = 439 mber = 539	539?	
	Reason (R): A stra (a) Both A and R		80°. orrect explanat	ion of A.	
20.	Reason (R): A conumbers in one unit (a) Both A and R	nique way (order may are true, and R is the c are true, but R is not the R is false.	e expressed as a differ). correct explanat	a product of only prime tion of A.	
		Sec	tion B		
	Do as directed			$2 \times 5 = 10$	

21. Draw an acute angle and label it as $\angle XYZ$.

	-	digit is d	ouble of 1 ouble of	-	git.						
	Create a number.	_	number v	where the	or e digit sur		nd the nu	imber is	a palindr	rome. Prov	vide the
	Is the fir (a) 150 a (b) 84 a	and 25	er divisib	ole by the	e second?						
	Find all	the mult	iples of	(a) 13 up	or to 100		up to 95				
	(a) 17, 2	20, 23, 20	6, 29,	,		ut what t	he patteri	n rule is t	for each	box.	
	(b)	,	, 36, 45,	54, 63,	72.						
		ng are th ing tally		obtained	by 20 stu	idents in	Geograp	hy. Arrai	nge these	e marks in	a
	5	8	6	8	2	3	9	6	6	7	
	8	9	5	8	3	9	7	6	5	6	
					Section	on C					
	Solve t	he follov	ving						3 x 6	5 = 18	
	A numb divisible		sible by	both 5 ar	nd 12. By	which o	ther num	ber will	that num	iber be alv	vays
27.	Give a d	liagramn	natic repr	esentatio	on of tria	ngular nu	ımbers.				
		e now is omic time		low man	y minutes	s until the	e clock sl	nows the	next		
					numbers up to 10		ese num	oers have	e same di	igits 1 and	13.

30. Draw a line segment of 5 cm. At its midpoint, draw a perpendicular line segment. What type

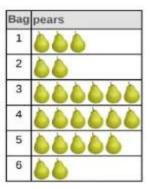
31. The following pictograph shows the number of pears in 6 bags . Find the following:

of angle is formed between the two-line segments? (using rounder)

- = 10 Pears
- (a) Bag with the maximum number of pears.

22. I am a 5-digit palindrome. I am an odd number.

- (b) Bag with the minimum number of pears.
- (c) Total number of pears in all the bags.



Do as directed $5 \times 4 = 20$

32. A survey showed the preference of different subjects by students of class VI Draw a pictograph to illustrate the above data, taking a proper scale.

Subjects	English	Hindi	Maths	Science	Social
No. of students	25	30	50	35	40

- 33. Construct an angle bisector divides $\angle XYZ$ into two angles of $\angle XYB$ and $\angle BYZ$. If $\angle XYZ=90^{\circ}$, find $\angle XYB$ and $\angle BYZ$.
- 34. What is the smallest number whose prime factorization has:
 - (a) Three different prime numbers?
 - (b) Five different prime numbers?

or

Answer the following Questions.

- (a) Write all the factors of 120.
- (b) Find the common factors of 5 and 15.
- (c) Write down separately the prime and composite numbers less than 20.
- (d) What is the greatest prime number between 1 and 10?
- (e) Express the given number as sum of two odd primes: 18
- 35. We are the group of 5-digit numbers between 40,000 and 80,000 such that all of our digits are even. Who is the largest number in our group? Who is the smallest number in our group? Who among us is the closest to 60,000?

Section E

Solve the following

 $4 \times 3 = 12$

- 36. Reversing and adding a 2-digit number repeatedly always give a palindrome? Prove this with the help of two examples.
- 37. A school is setting up a new library and wants to organize books into shelves. There are 24 science books and 36 math books. The school wants to arrange the books on shelves such that each shelf has the same number of books of each subject, and the number of shelves is minimized.
 - (a) What is the largest number of books that can be placed on each shelf?
 - (b) How many shelves are needed for science books?
 - (c) How many shelves are needed for math books?
 - (d) What is the total number of shelves required?
- 38. A railway train has coaches numbered in a pattern: S1, S2, S3, ... up to S20. Each sleeper coach has 72 seats.

Answer the following questions with the help of the above data.

- (a) Write the numbers of the 5th, 8th and 12th coaches.
- (b) If the numbering continues, what will be the 25th coach number?
- (c) How many total seats are there in the first 10 coaches?
- (d) If your ticket says S15, seat 45, explain what that means in this pattern.