



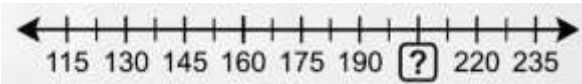
INDIAN SCHOOL AL WADI AL KABIR

MIDTERM REVISION QUESTION BANK (2026-27)

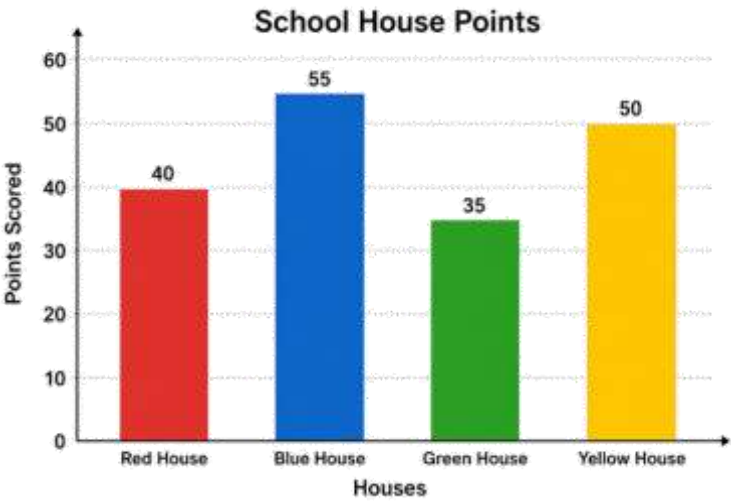
Class: VI

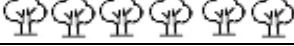
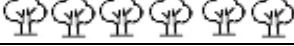
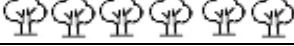
MATHEMATICS

Section A: Multiple Choice Question 1 mark each							
1.	The smallest three-digit palindrome number is:						
	A	111	B	101	C	202	D 100
2.	Which of the following can be written in the box $\frac{5}{9} = \frac{30}{\square}$						
	A	54	B	45	C	36	D 72
3.	Choose the smallest number whose digit sum is 6:						
	A	39	B	42	C	24	D 14
4.	Riya has $\frac{17}{4}$ kg of apples. How many whole kilograms of apples does she have?						
	A	3	B	4	C	5	D 7
5.	Which of the following represents the prime factorization of 72?						
	A	$2 \times 3 \times 12$	B	$2 \times 2 \times 3 \times 3$	C	$2 \times 2 \times 3 \times 6$	D $2 \times 2 \times 2 \times 3 \times 3$
6.	A pictograph shows sports equipment sold. The key says "  = 2 balls". If there are 3 soccer ball pictures on the graph, how many soccer balls were sold?						
	A	3 balls	B	5 balls	C	6 balls	D 12 balls
7.	Riya is making a paper flower decoration. She has used $\frac{59}{8}$ metres of ribbon altogether. Express the amount of ribbon used as a mixed fraction.						
	A	$4\frac{3}{4}$	B	$4\frac{3}{8}$	C	$3\frac{7}{8}$	D $7\frac{3}{8}$
8.	What is the smallest number whose prime factorization has four different numbers?						
	A	15	B	210	C	30	D 20
9.	Which of the following pairs is equivalent fraction?						
	A	$\frac{4}{7}$ and $\frac{8}{13}$	B	$\frac{4}{9}$ and $\frac{8}{14}$	C	$\frac{2}{5}$ and $\frac{4}{14}$	D $\frac{4}{7}$ and $\frac{8}{14}$
10.	On a number line, 4355 would be exactly between:						
	A	4350 & 4360	B	4340 & 4350	C	4360 & 4370	D 4000 & 4300
11.	Riya walks along a number line from 0 to 1. She takes 8 equal steps to reach 1. If she has taken 5 steps, what fraction of the distance has she covered?						
	A	$\frac{3}{8}$	B	$\frac{5}{8}$	C	$\frac{5}{3}$	D $\frac{8}{5}$
12.	Six friends shared 11 glasses of milk equally. Each friend drank ____ glass of milk.						
	A	$\frac{6}{11}$	B	$\frac{11}{6}$	C	$\frac{5}{6}$	D $\frac{11}{5}$

13.	During a school art activity, Anaya used $\frac{3}{4}$ metre of blue ribbon and $\frac{2}{5}$ meter of yellow ribbon to decorate a chart. The total length of ribbon Anaya used is:													
	A	$1\frac{3}{20}$ metre	B	$2\frac{3}{20}$ metre	C	$3\frac{3}{20}$ metre	D	$4\frac{3}{20}$ metre						
14.	Find the missing number represented by the question mark (?) in the given number line.													
	A	200	B	215	C	210	D	205						
15.	Which of the following is a perfect number?													
	A	6	B	8	C	12	D	15						
16.	A water tank is $\frac{7}{10}$ full. What fraction of the tank is empty?													
	A	$\frac{4}{10}$	B	$\frac{7}{10}$	C	$\frac{1}{10}$	D	$\frac{3}{10}$						
17.	According to the Collatz rule, what is the next term after 9?													
	A	18	B	27	C	28	D	10						
18.	The greatest prime number less than 100 is:													
	A	89	B	97	C	99	D	95						
19.	Which of the following pairs of numbers are co-prime?													
	A	12 and 18	B	15 and 25	C	14 and 25	D	21 and 35						
20.	The equivalent fraction of $\frac{24}{72}$ with denominator 9 is:													
	A	$\frac{2}{9}$	B	$\frac{4}{9}$	C	$\frac{6}{9}$	D	$\frac{3}{9}$						
21.	SOURCE BASED QUESTION - 1 During a mathematics activity on four-digit numbers, students wrote down six 4-digit numbers on cards and placed them in a single row on a table.													
	<table border="1"><tr><td>3050</td><td>7447</td><td>7484</td><td>6174</td><td>5239</td><td>4010</td></tr></table>								3050	7447	7484	6174	5239	4010
3050	7447	7484	6174	5239	4010									
I	Choose the supercell from the above table.													
	A	3050	B	7484	C	6174	D	4010						
II	Which number has digit sum equal to 19.													
	A	7447	B	7484	C	5239	D	3050						
III	Which number is a palindromic number?													
	A	3050	B	4010	C	7484	D	7447						
IV	Which number is the Kaprekar Constant?													
	A	7447	B	6174	C	3050	D	4010						
V	What is the smallest whole number you can replace Cell 1 (3050) with so that it becomes a supercell?													
	A	3051	B	4011	C	7448	D	6175						

22.	SOURCE BASED QUESTION - 2 The school conducted a reading activity to encourage students to develop good reading habits. Five students participated in the activity and recorded the number of books they read during a given period. The information collected was represented using the bar graph below. Study the graph carefully and answer the questions that follow:				Books Read by Five Students <table><thead><tr><th>Student</th><th>Number of books</th></tr></thead><tbody><tr><td>A</td><td>15</td></tr><tr><td>B</td><td>25</td></tr><tr><td>C</td><td>10</td></tr><tr><td>D</td><td>30</td></tr><tr><td>E</td><td>40</td></tr></tbody></table>				Student	Number of books	A	15	B	25	C	10	D	30	E	40
Student	Number of books																			
A	15																			
B	25																			
C	10																			
D	30																			
E	40																			
I	Which student read the maximum number of books?																			
	A	A	B	C	C	D	D	E												
II	How many books did B and E read altogether?																			
	A	40	B	65	C	85	D	100												
III	If Student A reads 10 more books, how many books will A have?																			
	A	20	B	35	C	25	D	40												
IV	How many more books must C read to reach 25 books?																			
	A	15	B	10	C	5	D	3												
V	Find the total number of books read by all five students.																			
	A	100	B	120	C	160	D	200												
Section B: Short Answer Questions (Type – 1) of 2 marks each																				
23.	Russell takes $2\frac{1}{5}$ minutes to walk across the school ground. Mathew takes $\frac{7}{4}$ minutes to do the same. Who takes less time and by what fraction?																			
24.	Represent the following fractions on a number line: $\frac{2}{8}, \frac{9}{8}, 1, \frac{5}{8}$																			
25.	Check if the Collatz Conjecture holds for the number 40.																			
26.	A vessel had $4\frac{1}{4}$ litres of petrol. Out of it, $\frac{3}{8}$ litres is used. How much petrol was left in the vessel?																			
27.	Write two pairs of twin prime numbers.																			
28.	Write all the factors of the following numbers. (i) 24 (ii) 36																			
Section C: Long Answer Questions (3 Marks)																				
29.	Reduce the following fractions to simplest form: (i) $\frac{90}{84}$ (ii) $\frac{60}{72}$ (iii) $\frac{8}{48}$																			

30.	A survey was conducted among 30 students to find out their favorite sports. The responses are given below: Cricket, Football, Cricket, Basketball, Football, Cricket, Tennis, Basketball, Cricket, Football, Tennis, Cricket, Basketball, Football, Cricket, Tennis, Basketball, Cricket, Football, Cricket, Tennis, Football, Basketball, Cricket, Football, Cricket, Basketball, Tennis, Cricket, Football. Prepare a frequency distribution table using tally marks to represent the given data.										
31.	Find the following: (i) Write two numbers whose digit sum is 18. (ii) What is the smallest number whose digit sum is 18? (iii) What is the largest 5-digit number whose digit sum is 18?										
32.	The bar graph represents the points scored by four houses in a school competition. Observe the bar graph and answer the following questions: (i) How many points did Blue House score? (ii) How many more points did Yellow House score than Green House? (iii) Find the total points scored by all four houses.  <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <caption>School House Points</caption> <thead> <tr> <th>House</th> <th>Points Scored</th> </tr> </thead> <tbody> <tr> <td>Red House</td> <td>40</td> </tr> <tr> <td>Blue House</td> <td>55</td> </tr> <tr> <td>Green House</td> <td>35</td> </tr> <tr> <td>Yellow House</td> <td>50</td> </tr> </tbody> </table>	House	Points Scored	Red House	40	Blue House	55	Green House	35	Yellow House	50
House	Points Scored										
Red House	40										
Blue House	55										
Green House	35										
Yellow House	50										
33.	Find the prime factorization of the given number without multiplying first. 120×48										
34.	Compare the following fractions using $<$, $>$ or $=$. (i) $\frac{17}{12}$ and $\frac{11}{6}$ (ii) $\frac{2}{5}$ and $\frac{8}{20}$										
35.	Apply the Kaprekar routine to 1257. Show each step to reach the Kaprekar constant.										
36.	Find a 2-digit number that satisfies all of the following conditions: (a) The number is less than 50. (b) 8 is a factor of the number. (c) The sum of its digits is 12										
Section D: Long Answer Questions & Case study (4 Marks)											
37.	What is the sum of the smallest and largest 6-digit palindrome? What is their difference?										
38.	Is the first number divisible by the second? Use prime factorization. Show your working. (i) 84 and 28 (ii) 108 and 24										

39.	Five students of Class 6 sold entry tickets for the annual school fair. Represent the data in a bar graph by choosing the scale 1 unit = 5 tickets																							
<table><tr><td>Student Name</td><td>Rahul</td><td>Priya</td><td>Amit</td><td>Saniya</td><td>Kevin</td></tr><tr><td>Tickets Sold</td><td>15</td><td>25</td><td>10</td><td>30</td><td>5</td></tr></table>							Student Name	Rahul	Priya	Amit	Saniya	Kevin	Tickets Sold	15	25	10	30	5						
Student Name	Rahul	Priya	Amit	Saniya	Kevin																			
Tickets Sold	15	25	10	30	5																			
40.	The number of customers visiting a small shop during different hours is recorded as: 12, 15, 10, 12, 18, 15, 10, 12, 18, 15, 12, 10, 18, 15, 12, 10, 15, 18, 12, 15 Make a frequency distribution table using tally marks.																							
41.	Write any four examples for each: (i) palindromic date. (ii) Palindromic time																							
42.	The pictograph given below shows the number of trees planted by students in various classes in a school. Observe the pictograph and answer the questions given. (i) How many trees did Class VI plant? (ii) Which class planted the greatest number of trees? (iii) Which class planted the fewest trees? (iv) How many trees did classes VI and VIII planted altogether? (v) How many more trees did class IX plant than class X?			<table><tr><td>Classes</td><td>Trees Planted</td><td> = 4 trees</td></tr><tr><td>VI</td><td></td><td></td></tr><tr><td>VII</td><td></td><td></td></tr><tr><td>VIII</td><td></td><td></td></tr><tr><td>IX</td><td></td><td></td></tr><tr><td>X</td><td></td><td></td></tr></table>			Classes	Trees Planted	 = 4 trees	VI			VII			VIII			IX			X		
Classes	Trees Planted	 = 4 trees																						
VI																								
VII																								
VIII																								
IX																								
X																								
43.	Using prime factorization, check the following numbers are co-prime numbers or not. Show your working. (i) 72 and 91 (ii) 45 and 75																							
44.	The number of students participating in different events in a competition is given below. Draw a pictograph using the key  = 6 students																							
<table><tr><td>Event</td><td>No. of students</td></tr><tr><td>Running</td><td>24</td></tr><tr><td>Long Jump</td><td>18</td></tr><tr><td>High Jump</td><td>12</td></tr><tr><td>Football</td><td>30</td></tr></table>							Event	No. of students	Running	24	Long Jump	18	High Jump	12	Football	30								
Event	No. of students																							
Running	24																							
Long Jump	18																							
High Jump	12																							
Football	30																							
45.	Case Study-1 Four friends shared equal-sized pieces of watermelon. Neha ate $\frac{3}{8}$, Ishaan ate $\frac{1}{4}$, Tara ate $\frac{2}{8}$ and Vivan ate $\frac{3}{16}$. (i) Who ate the largest portion of the watermelon? (ii) How much watermelon did Neha and Vivan eat together? (iii) How much more watermelon did Ishaan eat than Tara? (iv) Write an equivalent fraction for the part of the watermelon eaten by Vivan.																							



46. CASE STUDY -2:

The school librarian is organizing new books using special 3-digit codes. To test the students' number sense, she gives them four specific code numbers: 234, 250, 360, and 357.

(i) Test whether the book code 234 is divisible by 6.

Verify your answer using divisibility rules.

(ii) Test whether the book code 357 is divisible by 4. Verify your answer using divisibility rules.

(iii) From the code numbers 234, 250, 360, and 357, choose the code that is divisible by all of 3, 5, 9, and 10. Verify your answer using divisibility rules.



ANSWER KEY

1	B	2	A	3	C	4	B	5	D
6	C	7	D	8	B	9	D	10	A
11	B	12	B	13	A	14	D	15	A
16	D	17	C	18	B	19	C	20	D
21	(I) B (II) C (III) D (IV) B (V) C	22	I) E II) B III) C IV) A V) B	23	Mathew takes less time by $\frac{9}{20}$ minutes	24	Number line	25	$40 \rightarrow 20 \rightarrow 10 \rightarrow 5 \rightarrow 16 \rightarrow 8 \rightarrow 4 \rightarrow 2 \rightarrow 1$
26	$\frac{31}{8} = 3\frac{7}{8}$ litres	27	(3, 5), (11,13)	28	(i) 24: 1, 2, 3, 4, 6, 8, 12, 24 (ii) 36: 1, 2, 3, 4, 6, 9, 12, 18, 36	29	(i) $\frac{15}{14}$ (ii) $\frac{5}{6}$ (iii) $\frac{1}{6}$	30	Frequency table

31	(i) 99 and 189 (ii) 99 (iii) 99000	32	(i)55 (ii)15 (iii)180	33	$120 \times 48 = 2 \times 2 \times 2 \times 3 \times 5 \times 2 \times 2 \times 2 \times 2 \times 3$	34	(i) $\frac{17}{12} < \frac{11}{6}$ (ii) $\frac{2}{5} = \frac{8}{20}$	35	$7521 - 1257 = 6264$ $6642 - 2466 = 4176$ $7641 - 1467 = 6174$ (Kaprekar constant)
36	Multiples of 8 – 8,16,24,32,40,48 Sum of digits 12 and number less than 50 is 48.	37	Sum $100001 + 999999 = 1100000$ Difference $999999 - 100001 = 899998$	38	(i) All prime factors of 28 are contained in 84. It is divisible by 28. (ii) All prime factors of 24 are not contained in 108. It is not divisible by 108.	39	Bar graph	40	Frequency table
41	(i) 02/02/2020 12/02/2021 22/02/2022 03/02/2030 (ii)12:21 01:10 05:50 14:41	42	(i) 12 (ii) Class IX (iii)Class X (iv) 28 (v) 16	43	(i) Common Prime Factors: None 72 and 91 are co-prime numbers. (ii) Common Prime Factors: 3 and 5	44	Pictograph	45	(i) Neha (ii) $\frac{9}{16}$ (iii) They ate equal portion (iv) $\frac{6}{32}$

					and 75 are not co- prime.				
--	--	--	--	--	---------------------------------	--	--	--	--

46.

- (i) 234 by 6: Ends in an even digit (4), so divisible by 2. Digit sum is $2 + 3 + 4 = 9$. So divisible by 3. Since it satisfies both, it is divisible by 6.
- (ii) 357 by 4: No. Last two digits (57) are not divisible by 4.
- (iii) Code divisible by 3, 5, 9, and 10: 360. Ends in 0 (divisible by 5 and 10), and digit sum is $3 + 6 + 0 = 9$ (divisible by 3 and 9).
