INDIAN SCHOOL AL WADI AL KABIR

Mid Term Examination (2025-26)

Class: VI | Sub: MATHEMATICS | Max Marks: 80

Date: 18.09.2025 | Set- 1 | Time: $2\frac{1}{2}$ hours

***General Instructions*:**

1. This question paper contains 4 sections, Sections A to D
2. All questions are compulsory.
3. Section A has 20 questions carrying 1 mark each.
4. Section B has 5 questions carrying 2 marks each.
5. Section C has 6 questions carrying 3 marks each.
6. Section D has 8 questions carrying 4 marks each.
7. This question paper contains **6** pages.

Section A: Multiple Choice Question (Q.1 to Q.15) of **1** mark each

1. Which of the following number is a palindrome?

A 34544 B 12321 C 65457 D 78998

2. How many degrees are in a full turn?

A 360^0 B 300^0 C 180^0 D 90^0

3. Which pair of numbers is twin prime?

A 2 and 4 B 17 and 23 C 2 and 3 D 5 and 7

4. How many different lines can be drawn that passes through only one point?

A 1 B 2 C 3 D infinite

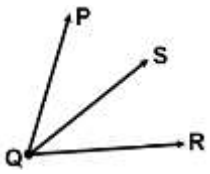
5. The prime factorization of 24 is:

A 2×12 B 2×3×4 C 2×2×2×3 D 4×6

6. What is the smallest prime number?

A 2 B 3 C 5 D 0

7. Ray QS is the angle bisector of ∠PQR. If ∠PQR=70^0, what is the measure of ∠PQS?



A 25^0 B 35^0 C 40^0 D 100^0

8. Which of the following number is a supercell in the grid?

30	45	70	90	35	20

A 30 B 45 C 70 D 90

9. Which of the following numbers is divisible by 4?

A 1105 B 1233 C 2100 D 3107

10. On a number line 1655, would be exactly between

A 1650 & 1660 B 1500 & 1600 C 1660 & 1670 D 1640 & 1650

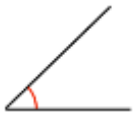
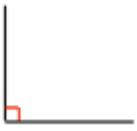
11. In a pictograph if ⌂⌂⌂⌂⌂⌂ stand for 30, how much does ⌂⌂ stands for?

A 8 B 12 C 26 D 10

12. Which of the following is a factor of 12?

A 11 B 3 C 5 D 7

13. Which angle is acute angle?

A  B  C  D 

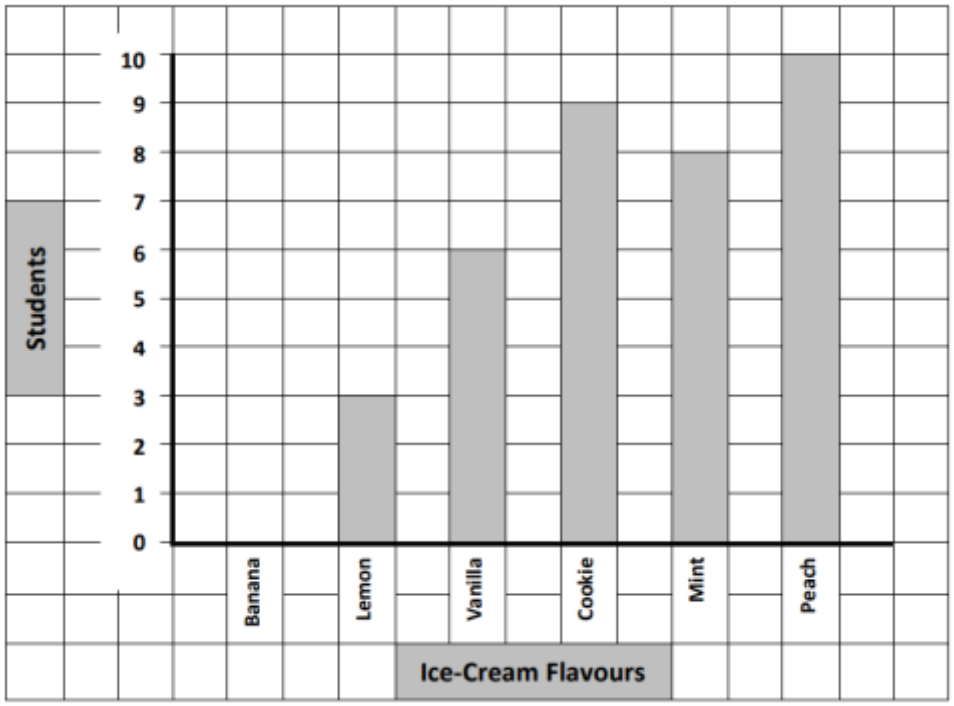
14. The number represented by the given tally mark is:

A 15 B 17 C 12 D 20

15. In the Collatz Sequence, which number comes after 7?

A 3 B 14 C 22 D 25

Q16. Consider the bar graph given below. All class 5 students at The Victoria School were asked to choose their most favorite ice-cream flavour.



I How many students like cookie ice-cream?

A 3 B 6 C 9 D 8

II How many students like peach ice-cream?

A 8 B 10 C 3 D 6

III Which flavour is not preferred by any of the students?

A Banana B Vanilla C Mint D Peach

IV How many more students prefer peach than vanilla ice-cream?

A 3 B 4 C 5 D 2

V Calculate the total number of students attended the survey.

A 26 B 30 C 40 D 36

Section B: Short Answer Questions (Type – 1) of 2 marks each (Q.17 to Q.21)

17. Find the first four multiples of 9.

18. Use factor tree diagram to find the prime factorization of 84.

19. The pictograph below shows the number of students present in class on each working day of the week.

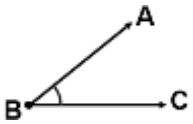
☺ Represents 5 children

Monday	☺☺☺☺☺☺☺
Tuesday	☺☺☺☺
Wednesday	☺☺☺☺
Thursday	☺☺☺☺☺☺
Friday	☺☺☺

i) How many children were present on Monday?

ii) On which day of the week were the lowest number of children present?

20. Write the name of the given angle in two different ways.



21. Riya checks her clock and notices a palindromic time 10:01. Write any other two examples of palindromic times on a 24 – hour clock.

Section C: Long Answer Questions (Type – 1) of 3 marks each (Q.22 to Q.27)

22. When finding the factors of 35 and 15, Aisha and Rohan noticed some numbers are common to both. Find these common factors by listing the factors of 35 and 15.

23 Draw the given angles using protractor.

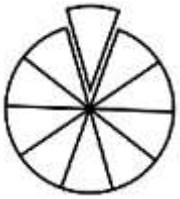
(i) Right angle ∠ABC.

(ii) 60^0 angle ∠PQR.

24. Start with the number 7643. Apply Kaprekar's routine and show all the steps to reach the Kaprekar constant.

25 Nidhi wants to check whether 56 is divisible by 14. Use the prime factorization method to determine if 56 is divisible by 14. Write the reason for your answer.

26. A pizza is cut into 10 equal slices.



(i) What is the angle of each slice at the centre? Show your workings.

(ii) What type of angle is it? (Acute / Obtuse / Right / Straight)

(iii) How many slices of pizza are required to form a straight angle.

27 Three friends decided to count the number of glasses of milk they drink in one month. Draw a pictograph to illustrate the given data by using the key: ◯ = 10 glasses.

Mark	Joe	Peter
50 glasses	40 glasses	70 glasses

Section D: Long Answer Questions (Type – 2) (Q.28 to Q.33) &

Case study (Q.34 &35) of 4 marks each

28. The favourite colours of 25 students are recorded as follows. Arrange this information in a table using tally marks and frequencies for each colour.

Red, Blue, Green, Red, Green, Red, Green, Blue, Red, Green, Blue, Red, Red, Blue, Yellow, Blue, Green, Blue, Green, Red, Yellow, Yellow, Red, Blue, Yellow.

29. Consider the list of numbers.

70, 71, 79, 80, 83, 86, 89, 90, 96, 97

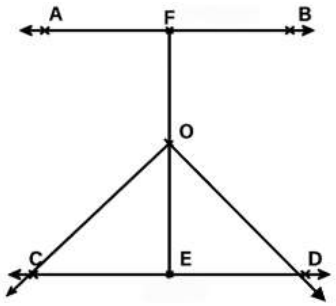
(i) Write any four prime numbers from the given list.

(ii) Write any four composite numbers from the given list.

30. What is the number whose prime factorization has:

(i) one 2, two 3s and one 5 (ii) one 3, one 5, one 7

31. Consider the given figure.



(i) Write the name of two lines.

(ii) Write the name of two linesegmants.

(iii) Write the name of two rays.

(iv) Write the two arms of the angle ∠COD

32. Write the digit sum of the numbers from 255 to 262.

33. In a school, there are four sections of Class VI. The number of students in each section is given below. Prepare a bar graph for the given data.

Section	A	B	C	D
Number of students	40	35	30	35

34. Case Study-1

Riya looked at the wall clock in her study room. At 3:00, the hands of the clock form a particular angle. Later, she again checked the clock at 5:00 and 6:00.

(i) What type of angle is formed at 3:00? (Acute / Obtuse / Right / Straight) (1m)

(ii) What type of angle is formed at 6:00? (Acute / Obtuse / Right / Straight) (1m)

(iii) What type of angle is formed at 5:00? (Acute / Obtuse / Right / Straight) (1m)

(iv) What is the angle measurement (in degrees) of the clock at 5:00? (1m)

35. Case Study-2

Aarav and his friends are playing a number game with the following cards:

12, 13, 24, 35, 39, 47, 52, 71

(i) Write any two numbers from the cards that are divisible by 2. (1 m)

(ii) Write any two numbers from the cards that are divisible by 3. (1 m)

(iii) Check whether 12 and 24 are co-prime or not. Show your workings. (2 m)

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