



INDIAN SCHOOL AL WADI AL KABIR

MIDTERM EXAMINATION (2026-27)

Class: VI

MATHEMATICS

Max. Marks: 80

Date: 15/09/2026

SET -1

Time: 2 ½ hours

General Instructions:

Section A: Multiple Choice Questions (Q.1 to Q.15) & Source based Question (Q.16)

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

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

Section D: : Long Answer Questions (Type – 2) of 4 marks each (Q.28 to Q.33)

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

NOTE: This question paper consists of 5 printed pages.

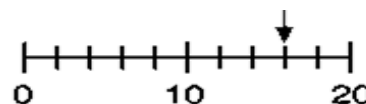
SECTION A Multiple Choice Question (Q.1 to Q.15)

1. In a pictograph, a symbol  represents 5 cup cakes. To represent 40 cup cakes, the number of symbols required is: 1M
A 6 **B** 40 **C** 10 **D** 8
2. Which of the following is the correct prime factorisation of 56? 1M
A 7×8 **B** $7 \times 4 \times 2$ **C** $2 \times 2 \times 2 \times 7$ **D** $2 \times 5 \times 6$
3. Which of the following does not represent a palindromic time? 1M
A 12:12 **B** 02:20 **C** 04:40 **D** 01:10
4. Which of the following fractions is greater than 1: 1M
A $\frac{3}{4}$ **B** $\frac{5}{9}$ **C** $\frac{7}{4}$ **D** $\frac{7}{9}$
5. The tally mark  on a frequency distribution table represents a frequency: 1M
A 24 **B** 14 **C** 19 **D** 20
6. Choose the smallest 2-digit number whose digit sum is 8: 1M
A 44 **B** 18 **C** 35 **D** 17
7. Choose a pair of co-prime numbers from the following: 1M
A (4, 16) **B** (3, 15) **C** (12, 21) **D** (53, 35)
8.

33240	35781	32890
31428	?	5678
35279	31893	35896

 Which of among the following numbers can be placed in the shaded cell to make it a super cell? 1M
- A** 38790 **B** 30893 **C** 5478 **D** 30999
9. Which of the following numbers is a perfect number? 1M
A 27 **B** 31 **C** 29 **D** 28

10. The number represented by the arrow mark on the given number line is: 1M



A 15 B 13 C 16 D 18

11. Choose an equivalent fraction of $\frac{4}{7}$ from the given fractions: 1M

A $\frac{12}{14}$ B $\frac{2}{7}$ C $\frac{20}{35}$ D $\frac{4}{10}$

12. Which of the following are not twin primes? 1M

A (29,31) B (21,23) C (11,13) D (17,19)

13. Express the fraction $\frac{18}{7}$ as a mixed fraction: 1M

A $\frac{7}{18}$ B $2\frac{3}{7}$ C $\frac{3}{4}$ D $2\frac{4}{7}$

14. Which of the following numbers is divisible by 9? 1M

A 165492 B 34891 C 11122 D 202019

15. The sum of $\frac{5}{9}$ and $\frac{3}{9}$ is: 1M

A $\frac{2}{9}$ B $\frac{8}{18}$ C $\frac{9}{8}$ D $\frac{8}{9}$

16. **Source based question(Q16) - 5 Marks**

Tina, Vinay, Rohan and Rakhi attended a birthday party. There was a fun game in which the one who collects maximum number of balloons will win the game. The following pictograph shows the number of balloons collected by each of them. Observe the pictograph and answer the following questions:

NAME	Number of balloons collected	 = 4 balloons
Tina		
Vinay		
Rohan		
Rakhi		

- I Who is the winner of the game? 1M

A Tina B Vinay C Rohan D Rakhi

- II How many more balloons did Tina collect than Rohan? 1M

A 1 B 2 C 3 D 4

- III Find the total number of balloons collected by Rohan and Rakhi together. 1M

A 4 B 16 C 12 D 20

- IV Who collected less than 10 balloons? 1M

A Rakhi B Rohan C Tina D All of these

- V How many balloons were collected by all four friends altogether? 1M

A 40 B 24 C 64 D 56

Section B: Short Answer Questions (Q17 to Q 21) of 2 marks each

17. Write the digit sum of all the numbers from 59 to 62. 2M

18. The given frequency table shows the marks obtained out of 10 by students in a math class test:

Marks	Tally Marks	Frequency
4		1
5		4
6		3
7		
8		4
9		5
10		4
Total		30

- How many students scored 7 marks?
- What is the least score in the test?

19. Find the common factors of 15 and 20. 2M

20. Sheetal completed $\frac{7}{12}$ of her homework in the morning and $\frac{3}{12}$ of the homework in the evening. What fraction of the total homework is completed by the end of the day? Express your answer in the lowest form. 2M

21. Write the prime factorisation of 1000. 2M

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

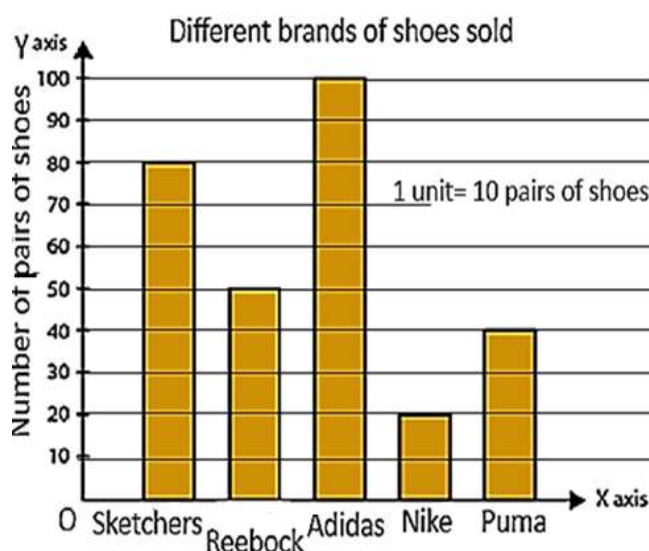
22. Find the prime factorisation of 36 using factor tree method. 3M

23. Check whether the Collatz Conjecture holds for the starting number 12. 3M

24. Draw a number line to represent the following fractions : $\frac{1}{7}$, $\frac{3}{7}$, 1 , $\frac{8}{7}$ 3M

25. The given bar graph shoes the different brands of shoes sold during a particular month in a city. Observe the graph and answer the following questions:

- Which brand of shoes is sold the most in the city?
- How many pairs of Sketchers were sold ?
- How many more pairs of Reebok brand were sold than the Puma shoes?



26. Answer the following questions: 3M

- Write any two equivalent fractions of $\frac{2}{3}$.
- Fill in the box with suitable number: $\frac{4}{9} = \frac{32}{\boxed{}}$

27. A group of 30 students went on a class trip. During the trip, Sreshta visited a garden and recorded the different varieties of flowers that her classmates liked the most. Observe the data and prepare a frequency distribution table using tally marks to represent the data. 3M

Rose, Lily, Tulip, Rose, Tulip, Jasmine, Lily, Rose, Tulip, Jasmine, Rose, Jasmine, Tulip, Lily, Tulip, Rose, Tulip, Lily, Tulip, Rose, Lily, Jasmine, Tulip, Rose, Lily, Rose, Lily, Rose, Jasmine, Rose.

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

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

28. The students of Class 6 conducted a survey to find out which dog breeds were most popular among them. The results are given in the table below. Observe the table and draw a pictograph to represent the data. Use the key $\otimes = 2$ students 4M

Dog breed	Number of students
Labrador	12
German Shepherd	8
Golden Retriever	14
Beagle	6

29. How many rounds does the number 6832 take to reach the Kaprekar's constant? Show steps. 4M
30. The students of grade 6 were made to choose the skill subjects according to their preference and the data collected is shown below: 4M

Skill subject	Robotics	Photography	Coding	First Aid
No. of students	40	20	10	30

Draw a bar graph to represent the given data.

31. Using prime factorisation check whether 72 is divisible by 12. 4M
32. Ayaan went to the sea beach on Sunday evening. He collected 24 pebbles and 16 sea shells. 4M
- Find the total number of objects collected from the beach.
 - What fraction of the total objects collected were sea shells?
 - What fraction of the total objects collected were pebbles?
 - Write the fraction of pebbles in the simplest form.
33. Find the prime factorisation of 45×56 without multiplying them first. 4M

34. CASE STUDY -1:

4M

At a busy road junction, two traffic signals control the movement of vehicles. Signal A changes every 12 seconds and Signal B changes every 18 seconds. The traffic police want to study the pattern of the signals to improve traffic management. Based on the given information, answer the following questions:

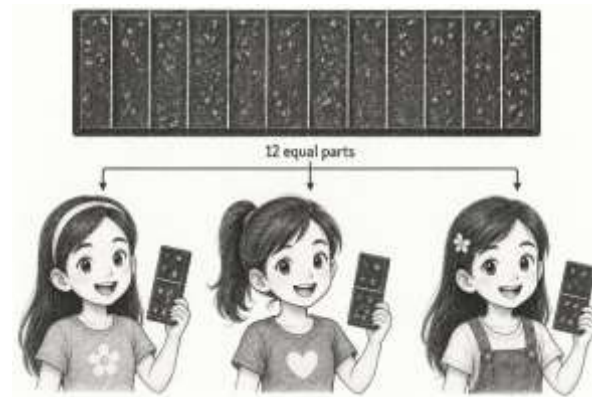


- Write the prime factorisation of 12 and 18.
- Write the common factors of 12 and 18.
- Write two prime numbers between 12 and 18.

35. CASE STUDY-2:

4M

Radha, Sona, Deepu and Sneha visited a fair. They bought a large rectangular peanut chocolate and decided to share it. The shopkeeper cut the peanut chocolate into 12 equal parts. Radha ate 3 parts, while Sona, Deepu and Sneha ate 2 parts each. After eating, they compared how much each one had eaten. Based on the given information, answer the following questions:



- What fraction of the chocolate did Radha eat?
- What fraction of the chocolate did Deepu eat?
- Find the fraction of the chocolate did Sona, Deepu and Sneha eat together?
- What fraction of the chocolate will be left out?

***** *All the Best* *****