
MATHEMATICS MOCK TEST

Class: VI | Set: 02

Time: 2 Hours | Written Marks: 35 | Viva: 5 | Total: 40 Marks

NAME: _____

ROLL NO: _____

SECTION A

(1 Mark Each)

1. Check if 12, 543 is divisible by 3 using the divisibility rule.
2. Which is greater: 0.07 or 0.1?
3. Write the decimal for "Nine and seven hundredths".
4. How many endpoints does a Ray have?
5. If 1 symbol represents 10 trees in a pictograph, how many trees do $3\frac{1}{2}$ symbols represent?

SECTION B

(2 Marks Each)

6. There were 219 stickers in Jatin's collection. Raman gave him his album containing 237 stickers. Estimate how many stickers Jatin has now (round to nearest hundred).
7. Convert the following into Decimals:
(a) $500 + 70 + 8 + \frac{3}{10}$ (b) $\frac{12}{5}$
8. Draw a circle with a diameter of 8 cm. What will be its radius?
9. The following data represents the number of members in 15 families: 4, 6, 5, 4, 3, 5, 4, 5, 4, 6, 3, 4, 3, 5, 4. Organize this data using tally marks.
10. Subtract: $100.00 - 45.67$.

SECTION C

(3 Marks Each)

11. Abhay bought 576 balloons for his birthday. Out of these, 239 leaked and could not be used. Estimate how many balloons Abhay used for decoration (round to nearest hundred).
12. Nasreen bought 3 m 20 cm cloth for her shirt and 2 m 5 cm cloth for her trouser. Find the total length of cloth bought by her in metres using decimals.
13. Draw a line segment \overline{AB} of length 9.5 cm and construct its perpendicular bisector using a ruler and compasses.

14. The following table shows the favorite subjects of 40 students.

Subject	English	Maths	Science	Hindi
No. of Students	12	15	8	5

Represent this data using a Bar Graph.

SECTION D

(4 Marks Each - Case Study)

Case Study 1: The Palindromic Clock

A digital clock shows time in a way that it reads the same forwards and backwards (e.g., 12:21). This is called a palindromic time.

- The clock just displayed 10:01. After how much time will this clock display the **next** palindromic time? (2 Marks)
- How many palindromic times are there between 2 o'clock and 3 o'clock? List any two. (2 Marks)

Case Study 2: The Shopping Trip

Sita went to a grocery store. She bought 5 kg 500 g of rice, 2 kg 75 g of sugar, and 15 kg 5 g of flour.

- Express the weight of each item in kilograms using decimals. (2 Marks)
- Find the total weight of all the items she bought in kilograms. (2 Marks)

VIVA VOCE

(5 Marks)

- **Number Play:** After how many iterations starting with 3814 do we arrive at Kaprekar's constant?
- **Decimals:** How many centimetres are there in 0.5 metres?
- **Construction:** What instrument is used to draw an angle of 90° without using a protractor?
- **Data Handling:** What is a Pictograph?
- **Logic:** Write any one palindromic date that occurred in the year 2021.