
MATHEMATICS MOCK TEST

Class: VI | Set: 17

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

NAME: _____

ROLL NO: _____

SECTION A

(1 Mark Each)

1. Write the decimal "20.805" in words.
2. Write the smallest 7-digit number having four different digits.
3. Express 173 mm in cm, using decimals.
4. What is the measure of the angle formed when you bisect a right angle (90°)?
5. In a pictograph, if 1 triangle symbol represents 5 trees, how many trees are represented by 7 such symbols?

SECTION B

(2 Marks Each)

6. Write "324.36" in expanded form.
7. Write any three numbers whose digit sum is 12.
8. Draw a line segment $AB = 6$ cm. Take a point C on AB such that $AC = 2.5$ cm. Draw CD perpendicular to AB using a ruler and compasses.
9. Find the difference: $82.1 - 68.75$.
10. The marks obtained by 10 students are: 6, 8, 6, 7, 5, 8, 6, 9, 7, 6. Prepare a frequency table using tally marks.

SECTION C

(3 Marks Each)

11. Write any 4 palindromic times and the palindromic date that occurred in the year 2021.
12. During three days of a week, a rickshaw puller earns ₹462.50, ₹385.80, and ₹507.70 respectively. What is his total earning during these days?
13. Using a pair of compasses, construct an angle of 60° and then bisect it to make an angle of 30° .
14. The table below shows the number of pets in 20 families. Draw a simple bar graph on your answer sheet.

Type of Pet	Dog	Cat	Rabbit	Fish
No. of Families	8	5	4	3

SECTION D

(4 Marks Each - Case Study)

Case Study 1: The Vegetable Market Purchase

Tina went to the market and bought vegetables weighing 10 kg in total. Out of this, 3 kg 50 g is onions and 2 kg 75 g is tomatoes. The rest is potatoes.

- (i) Express the weight of onions and tomatoes in kilograms using decimals. (2 Marks)
- (ii) Calculate the weight of the potatoes in kilograms. (2 Marks)

Case Study 2: Constructing a Geometry Tool

A student is asked to construct specific shapes for his geometry practical file using a ruler and compasses.

- (i) Construct a square of side length 5 cm. (2 Marks)
- (ii) In this square, draw a diagonal and measure its length. (2 Marks)

VIVA VOCE

(5 Marks)

- **Numbers:** What is the Kaprekar's constant and what is the rule to reach it?
- **Decimals:** How do you write $1573/100$ as a decimal?
- **Constructions:** What is the difference between a parallel line and a perpendicular line?
- **Data:** If a symbol represents 10 students, what does half a symbol represent?
- **Estimation:** If there are 55 seeds in 8 fruits, estimate the number of seeds in each fruit.