
MATHEMATICS MOCK TEST

Class: VI | Set: 09

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

NAME: _____

ROLL NO: _____

SECTION A

(1 Mark Each)

1. Write the decimal "208.69" in words.
2. How many times does the digit 9 occur if we write all the numbers from 1 to 100?
3. Express 8 paise in Rupees, using decimals.
4. Draw a circle of radius 3 cm using a compass.
5. In a pictograph, if a symbol represents 6 students, how many symbols represent 24 students?

SECTION B

(2 Marks Each)

6. Write the place value of each digit in the decimal: 84.672.
7. Form the greatest 6-digit number using the digits 6, 5, 9, and 3, repeating any two digits and using each digit at least once.
8. Find the value of: $102 - 56.84$.
9. Draw a line segment $AB = 7.3$ cm and find its midpoint using a ruler and compasses.
10. Ramesh covers 36 km 235 m by taxi, 4 km 85 m by rickshaw and 1 km 80 m on foot. What is the total distance covered by him?

SECTION C

(3 Marks Each)

11. Write any 3 numbers whose digit sum is 12 and list any 4 palindromic times.
12. Evaluate the following:
(a) $(1.5)^3$ (b) $0.2 \times 0.02 \times 0.002$
13. Draw any line segment \overline{PQ} . Mark any point M on it. Through M , draw a perpendicular to PQ using a ruler and compasses.

14. The following data shows the favorite fruits of 25 children in a class:

Apple: 5, Mango: 10, Banana: 4, Grapes: 6.

Organize this data in a table using tally marks and draw a simple bar graph on your answer sheet.

SECTION D

(4 Marks Each - Case Study)

Case Study 1: Supercells and Estimation

In a "Number Game" class, a row of cells contains the following numbers:

8010, 2367, 942, 1163, 125, 3418, 3814, 3184, 3481.

- (i) Find the number of "supercells" (numbers following a specific positioning logic) in the row above. (2 Marks)
- (ii) There are 55 seeds in 8 fruits of a plant. If we assume the number of seeds is almost equal in each fruit, estimate the number of seeds in each fruit. (2 Marks)

Case Study 2: Shopping and Measurements

Tina and Kunal went to the market. Tina bought 3 kg 50 g of onions and 2 kg 75 g of tomatoes. Kunal purchased a notebook for ₹136.75, a pencil for ₹8.65 and a pen for ₹53.80.

- (i) Express the weight of onions and tomatoes in kilograms using decimals. (2 Marks)
- (ii) Kunal gave a 500-rupee note to the shopkeeper. What amount did he get back? (2 Marks)

VIVA VOCE

(5 Marks)

- **Palindromes:** Write the palindromic date that occurred in the year 2021.
- **Decimals:** Which is greater: 0.98 or 1.02?
- **Geometry:** What is the name of the longest chord of a circle?
- **Data:** In a bar graph, what does the height of each bar represent?
- **Logic:** If you start with 3814, what constant number will you eventually arrive at using the Kaprekar's iteration?