
MATHEMATICS MOCK TEST

Class: VI | Set: 12

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

NAME: _____

ROLL NO: _____

SECTION A

(1 Mark Each)

1. Write the decimal "Zero point zero zero eight" in figures.
2. After how many years does the calendar repeat itself?
3. Express 9 cm in metres using decimals.
4. What is the measure of the angle formed by two perpendicular lines?
5. If a symbol represents 10 students, how many students are represented by 4.5 symbols?

SECTION B

(2 Marks Each)

6. Write any 3 palindromic dates (e.g., 02-02-2020).
7. Write 13.496 in expanded form.
8. Draw an angle of 50° with the help of a protractor. Draw a ray bisecting this angle.
9. Find the sum: $0.85 + 9.548 + 2.6 + 3.47$.
10. Prepare a frequency table using tally marks for the following data representing daily absentees: 2, 5, 2, 3, 5, 2, 4, 3, 2, 5.

SECTION C

(3 Marks Each)

11. Find the sum of the smallest and the largest 4-digit palindromes.
12. Meena walked 2 km 35 m in the morning and 1 km 7 m in the evening. How much distance did she walk in all? (Express in km using decimals).
13. Using a pair of compasses, construct an angle of 120° and then bisect it to make an angle of 60° .
14. The following data shows the marks obtained by 25 students. Organize it in a table using tally marks:
5, 10, 15, 5, 10, 20, 15, 10, 5, 5, 10, 15, 20, 10, 5, 10, 15, 10, 5, 10, 15, 20, 5, 10, 15.

SECTION D

(4 Marks Each - Case Study)

Case Study 1: The Clothing Store Measurement

Ramu went to a clothing store to buy fabric for his new uniform.

- (i) Ramu bought 2 m 70 cm cloth for his shirt and 3 m 5 cm cloth for his trouser. Find the total length of cloth bought by him in metres using decimals. (2 Marks)
- (ii) If he needs to cut a piece of 1 m 40 cm for a scarf from the total cloth, find the remaining length. (2 Marks)

Case Study 2: Constructing a Rectangle

A student is asked to construct a specific rectangular frame for a geometry project.

- (i) Construct a rectangle $ABCD$ in which $AB = 4.5$ cm and the diagonal $BD = 5.4$ cm using a ruler and compasses. (2 Marks)
- (ii) What will be the measure of each interior angle of this rectangle? (2 Marks)

VIVA VOCE

(5 Marks)

- **Number Play:** Is it possible to fill a grid with all distinct numbers such that there are no supercells?
- **Decimals:** How do you convert $167/100$ into a decimal?
- **Construction:** What is the name of the angle that is half of 45° ?
- **Data Handling:** In a bar graph, what does the width of each bar represent?
- **Logic:** Which number occurs 20 times when we write all the numbers from 1 to 100?