
MATHEMATICS MOCK TEST

Class: VI | Set: 15

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

NAME: _____

ROLL NO: _____

SECTION A

(1 Mark Each)

1. Write the decimal "Point zero six five" in figures.
2. After how many years does the calendar repeat itself?
3. Express 36 paise in Rupees, using decimals.
4. Find the product: 0.7×10 .
5. What is the instrument in the geometry box used to draw an angle of 50° ?

SECTION B

(2 Marks Each)

6. What is the sum of the smallest and the greatest numbers formed by the digits 7, 2, 0, and 5?
7. Write 13.496 in expanded form.
8. Draw a line segment $AB = 5.6$ cm. Draw the right bisector of AB using a ruler and compasses.
9. Find the difference: $63.57 - 38.69$.
10. The marks obtained by 10 students in a class test are: 5, 8, 4, 5, 9, 8, 5, 7, 5, 8. Prepare a frequency distribution table using Tally Marks.

SECTION C

(3 Marks Each)

11. How many times does the digit 9 occur if we write all the numbers from 1 to 100? Also, write the palindromic date that occurred in 2021.
12. Saina had a piece of cloth measuring 20 m 5 cm in length. She cuts 4 m 50 cm length of cloth from this for making a curtain. How much cloth is left with her?
13. Using a pair of compasses, construct an angle of 75° . (Hint: Bisect the angle between 60° and 90°).
14. The following data shows the favorite sports of 25 students:
Cricket: 10, Football: 7, Tennis: 3, Badminton: 5.
Organize this data in a frequency table and represent it using a Bar Graph.

SECTION D

(4 Marks Each - Case Study)

Case Study 1: Estimation in Real Life

Solve the following estimation problems using rounding techniques:

- (i) 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 the nearest hundred). (2 Marks)
- (ii) Sanjay's garden has sunflowers. He counted the petals of a sunflower and found them to be 79. Estimate the total number of petals in 122 such sunflowers. (2 Marks)

Case Study 2: Constructing Frames

A student is designing a rectangular picture frame for a geometry project.

- (i) Construct a rectangle one of whose sides is 5 cm and the diagonal is of length 6.5 cm using a ruler and compasses. (2 Marks)
- (ii) If you were to construct a square of side length 5 cm, what would be the measure of each interior angle? (2 Marks)

VIVA VOCE

(5 Marks)

- **Number Logic:** If we start with 3814, what constant number will we arrive at using Kaprekar's iteration?
- **Decimals:** Evaluate $(0.3)^3$.
- **Constructions:** What is the difference between an angle bisector and a perpendicular bisector?
- **Data:** In a bar graph, if 1 unit represents 50 books, how many units represent 250 books?
- **Estimation:** If there are 55 seeds in 8 fruits, estimate the number of seeds in each fruit.