MATHEMATICS MOCK TEST
Class: VI | Set: 07

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

NAME: _____ ROLL NO: _____

SECTION A   (1 Mark Each)

1. Using the divisibility rule, check if $5, 72$ is divisible by 4.

2. Write "5 hundredths" as a decimal.

3. What is a number called if it has only two factors, 1 and itself?

4. If 1 cm $= 10$ mm, express 2 mm in cm using decimals.

5. In a pictograph, if one symbol $\triangle$ represents 5 trees, how many symbols represent 20 trees?

SECTION B   (2 Marks Each)

6. Arrange the following decimals in descending order: $2.27, 2.7, 2.07, 2.007, 0.27$.

7. Express as Rupees using decimals:

   (a) 5 paise   (b) 75 paise

8. Draw a line segment $PQ = 6.1$ cm and find its perpendicular bisector using a ruler and compasses.

9. A die was thrown 10 times and the following scores were recorded: $1, 6, 3, 2, 1, 4, 5, 2, 4, 2$. Organize this in a frequency table with tally marks.

10. Find the common factors of 20 and 28.

SECTION C   (3 Marks Each)

11. A taxi driver charges ₹9.80 per km. How much will he charge for a journey of 15 km?

12. Express the following as metres using decimals:

    (a) 15 cm   (b) 6 cm   (c) 2 m 45 cm

13. Draw a circle of radius 4 cm. Draw any two of its chords and construct the perpendicular bisector of these chords. Name the point where they meet.

14. The table below shows the number of students who like different fruits:

Fruit	Apple	Banana	Grapes	Mango
Students	30	20	10	40

Represent this data using a Bar Graph with a scale of 1 unit length = 10 students.

SECTION D   (4 Marks Each - Case Study)

Case Study 1: Richa's Journey
The distance between Richa's house and her school hostel is 61 km. She covers 54 km 860 m by taxi, 5 km 65 m by tonga and the rest by rickshaw.

  (i) Express the distance covered by taxi and the distance covered by tonga in kilometres using decimals. (2 Marks)

  (ii) How much distance did she cover by rickshaw? (2 Marks)

Case Study 2: Constructing Angles
A student is given a line segment and asked to build angles without a protractor.

  (i) Construct an angle of $60°$ using only a ruler and compasses. (2 Marks)

  (ii) Use the angle bisector method to construct a $30°$ angle from the $60°$ angle. (2 Marks)

VIVA VOCE   (5 Marks)

  • **Number Play:** What is the smallest composite number?

  • **Decimals:** How do you write $7/1000$ as a decimal?

  • **Construction:** What is the length of the diameter if the radius is 3.5 cm?

  • **Data Handling:** What is the difference between a Bar Graph and a Pictograph?

  • **Estimation:** If there are 55 seeds in 8 fruits, estimate the number of seeds in each fruit.