CBSE Board
Class VI Mathematics
Term II
Sample Paper - 1

Time: 2 hour   Total Marks: 50

General Instructions:

1. **All** questions are **compulsory**.
2. The question paper consists of **28** questions and it is divided into **three sections** A, B and C.
3. **Section A** comprises of **10** questions carrying 1 mark each.
4. **Section B** comprises of **14** questions carrying 2 marks each.
5. **Section C** comprises of **4** questions carrying 3 marks each.
6. Question numbers **1 to 10** in **Section A** are multiple choice questions where you are to select **one** correct option out of the given four.

Section A
(Questions 1 to 10 carry 1 mark each)

1. The simplest form of fraction of 1.35 is   [1]

    A. $\dfrac{27}{20}$

    B. $\dfrac{29}{20}$

    C. $\dfrac{31}{25}$

    D. $\dfrac{23}{20}$

2. Which of the following is an example of primary data?   [1]
    A. Data collected from a group of 40 students
    B. Data collected from world wide web
    C. Data collected from a school records
    D. Data collected from DISE

3. Perimeter of a square = _____ $\times$ length of a side.   [1]
    A. 1
    B. 2
    C. 3
    D. 4

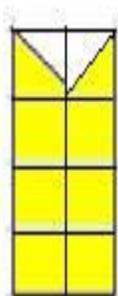**4.** If p is the side length of square then its area is: [1]
    A. p^2
    B. p^3
    C. 4p
    D. 2p

5. Which of the following ratio is not equivalent to 50:90?   [1]
    A. 5:9
    B. 15:19
    C. 10:18
    D. 25:45

6. _____ triangle has exactly one line of symmetry.   [1]
    A. An Equilateral
    B. A scalene
    C. An isosceles
    D. A Right angled

7. A _____ is used to draw and measure angles.   [1]
    A. protractor
    B. ruler
    C. set square
    D. divider

8. Which of the following decimal has highest value?   [1]
    A. 0.5
    B. 0.6
    C. 0.7
    D. 0.2

9. Write the expression for "n divided by 5 and then 8 is subtracted from the result".   [1]
    A. $\dfrac{n}{5} + 8$
    B. $\dfrac{n}{5} - 8$
    C. $5n - 8$
    D. $\dfrac{5}{n} - 8$

10. Which of the following letters has a horizontal line of symmetry?   [1]
    A. H
    B. S
    C. P
    D. All of the above

Section B
(Questions 11 to 24 carry 2 marks each)

11. Preeta purchased a book, a pen and a notebook for Rs 165.35, Rs 72 and Rs 14.85 respectively. How much money will he have to pay to the shopkeeper for these items? [2]

12. Classify the following data as primary or secondary. [2]
   (a) Classifying date of birth of different students from class attendance register.
   (b) Collecting Name, roll number information from each individual.

13. Perimeter of a regular pentagon is 25cm. find the length of its one side? [2]

14. Students are marching in a parade. There are 11 students in a row. What is the rule, which gives the number of students, given the number of rows? [2]

15. Find the ratio of 300 cm to 1.5 m. [2]

16. List any three symmetrical objects from your home or school. [2]

17. Draw a line segment of length 4.5 cm using ruler and compass. [2]

18. Do the ratios 30 cm to 4 m and 20 sec to 6 minutes form a proportion? [2]

19. By how much should 84.5 be decreased to get 27.84? [2]

20. Organize the following data in tally chart.[2]

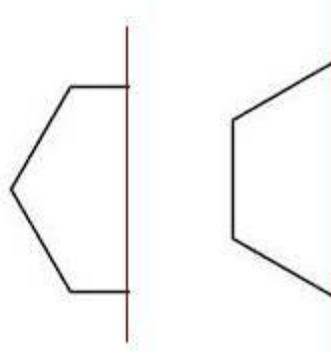| Subjects	Number of Students
English	10
Hindi	8
Math	17
Science	12

21. Find the area of the shaded portion given below: [2]

22. Separate the following as a variable and constant. [2]
x, z, a, 4, b, -1, 3, t, s.

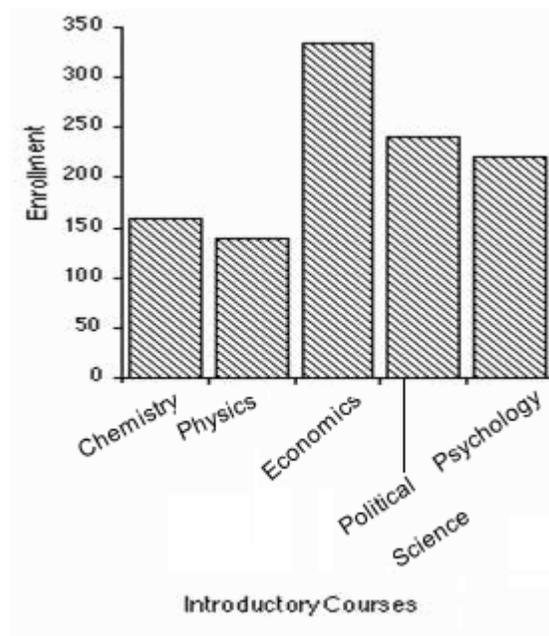**23.** If the cost of 9 pens is Rs 135, then find the value of 16 pens. [2]

24. Complete the following images whose one half and axis of symmetry is given. [2]

Section C
(Questions 25 to 28 carry 3 marks each)

25. If the marks of Rohit, Ajay and Vipul are in ratio of 4 : 5 : 6. If Ajay got 75 marks then find the marks of Rohit and Vipul? [3]

26. From the following graph, find: [3]
   (a) Which course has the most students enrolled in it?
   (b) Order the courses by enrollment from lowest to highest.
   (c) The enrollment in Economics is approximately how many times bigger than the enrollment in Chemistry?

27. Draw a circle of any radius and a chord AB in it. Construct a perpendicular from centre to the chord. Does this perpendicular divide the chord in equal parts? [3]

28. Three rectangles of dimensions 4 m x 3 m are removed from a large rectangle of dimensions 10 m x 8 m. Find the area of the remaining part. [3]