CBSE Board
Class VI Mathematics
Term II
Sample Paper 1

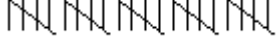Time: 2 ½ hours   Total Marks: 80

General Instructions:

1. **All** questions are **compulsory**.
2. **Section A** comprises of **12** questions carrying 1 mark each.
3. **Section B** comprises of **12** questions carrying 2 marks each.
4. **Section C** comprises of **8** questions carrying 3 marks each.
5. **Section D** comprises of **5** questions carrying 4 marks each.
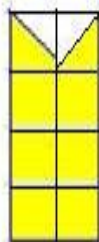
Section A
(Questions 1 to 12 carry 1 mark each)

1. The simplest form of fraction of 1.35 is
   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?
   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. If the marks of 5 students out of 50 in a math exam are:
   45, 32, 47, 21, 42
   The difference between maximum and minimum marks is
   A. 28
   B. 24
   C. 25
   D. 26

4. Perimeter of a square = _____ × length of a side
   A. 1
   B. 2
   C. 3
   D. 4

5. If p is the side length of square then its area is
   A. p^2
   B. p^3
   C. 4p
   D. 2p

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

7. _____ triangle has exactly one line of symmetry.
   A. An equilateral
   B. A scalene
   C. An isosceles
   D. A right-angled

8. A _____ is used to draw and measure angles.
   A. protractor
   B. ruler
   C. set square
   D. divider

9. Which of the following decimal has the highest value?
   A. 0.5
   B. 0.6
   C. 0.7
   D. 0.2

10. Write the expression for "n divided by 5 and then 8 is subtracted from the result".
   A. $\dfrac{n}{5} + 8$

   B. $\dfrac{n}{5} - 8$

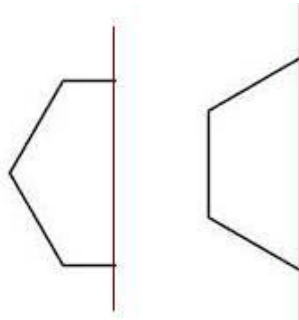   C. 5n – 8

   D. $\dfrac{5}{n} - 8$

11. Which of the following letters has a horizontal line of symmetry?

    A. H
    B. S
    C. P
    D. All of the above

12. The tally mark 𝍷𝍷𝍷𝍷 𝍷𝍷𝍷𝍷 𝍷𝍷𝍷𝍷 𝍷𝍷𝍷𝍷 𝍷𝍷𝍷𝍷 ||| represents the number

    A. 26
    B. 28
    C. 25
    D. 29

Section B
(Questions 13 to 24 carry 2 marks each)

13. 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?

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

15. Perimeter of a regular pentagon is 25 cm. Find the length of its one side.

16. 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?

17. List any three symmetrical objects from your home or school.

18. Draw a line segment of length 4.5 cm using ruler and compass.

19. Do the ratios 30 cm to 4 m and 20 sec to 6 minutes form a proportion?

20. By how much should 84.5 be decreased to get 27.84?

21. Find the area of the shaded portion given below:

22. Complete the following images whose one half and axis of symmetry is given.

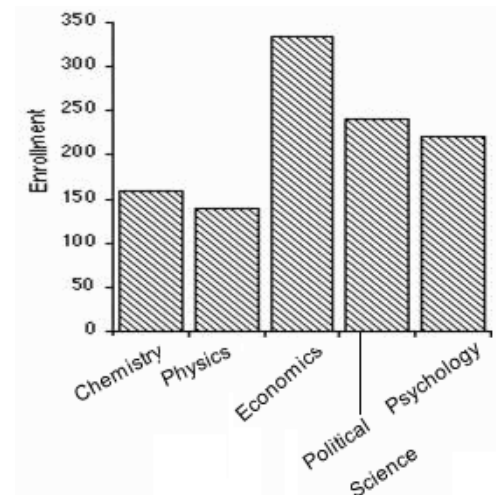**23.** Study the following chart and answer the questions that follow:

Ice-cream	Number of Students
Vanilla	ЖІ ЖІ ЖІ
Butterscotch	ЖІ ЖІ ІІ
Strawberry	ЖІ ЖІ ЖІ ІІІ
Chocolate	ЖІ ІІІІ

(a) How many students like butterscotch ice-cream?
(b) Which flavor of ice-cream is liked by less number of students?

24. An isosceles triangle has equal sides of 18 cm each. Find the third side if the perimeter of triangle is 50 cm.
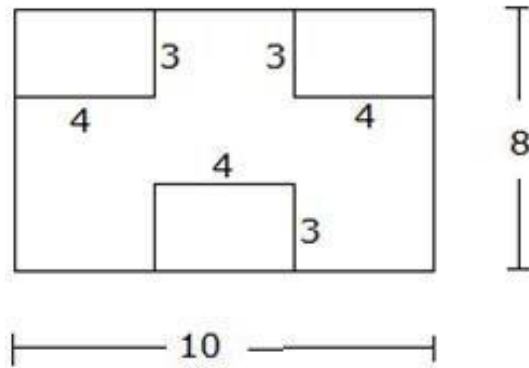
Section C
(Questions 25 to 32 carry 3 marks each)

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?

26. From the following graph, find
(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 larger than the enrollment in Chemistry?

27. Draw any line segment $\overline{AB}$. Without measuring $\overline{AB}$, construct a copy of $\overline{AB}$.

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.

29. If the interest on a sum of Rs. 5250 for a year is Rs. 420, then what is the rate percent of interest per annum?

30. A bus travels 300 km in 6 hours.
(a) How much time is required to cover 280 km with the same speed?
(b) Find the distance covered in 10 hours with the same speed.

31. Rahul wants to paint all the four square walls of his room of side 10 m. If the cost of painting is Rs. 20 per sq. m then what will be the total cost of painting?

32. Many people visit Delhi every year. The exact visitor figures for 2009 and 2010 can be found in the table below. Use it to answer the questions given below.

	2009		2010	
	Adults	children	adults	children
Jan	1050	900	2000	1000
Feb	2000	1100	2200	800
March	1200	1300	1200	1200
April	3000	780	1250	1000
May	3000	2900	3000	3000
June	1200	1200	3000	2000

(a) For both years, find the month(s) in which maximum adults visited.
(b) For both years, find the month(s) in which maximum children visited.
(c) For both years, find the month(s) in which the number of children and adults were the same.
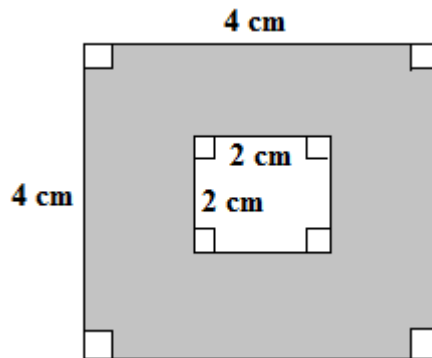
Section D
(Questions 33 to 37 carry 4 marks each)

33. In the following table there is given the number of women who use cosmetics in a city in different years. Represent the above data by pictograph.

Year	2000	2001	2002	2003
No. of women	5000	7000	9000	12000

34. Draw a circle with centre O and any radius. Join its one diameter CD and construct its perpendicular bisector. Does it pass through centre O?

35. Calculate the area of the shaded portion:

36. The total weight of a bag containing 13 kg 750 g potatoes and 8 kg 80 g of tomatoes is 22 kg 200 g. How much is the weight of the empty bag?

37. Solve: $3(x + 3) - 2(x - 1) = 5(x - 5)$