

CBSE Board
Class VI Mathematics
Term II
Sample Paper 2

Time: 2 ½ hours

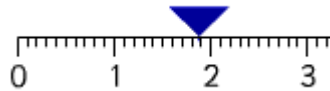
Total Marks: 80

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. Decimal number represented by point A on the number line is _____



- A. 1.10
B. 1.7
C. 1.8
D. 1.9
2. Read the following table:

Favorite Game	
Name of game	Number of students
Cricket	
Football	
Hockey	
Basketball	
Volley ball	

Difference between the students who like hockey and football is:

- A. 4
B. 3
C. 2
D. 1

3. The side of a square with perimeter 70 m is
- A. 17 m
 - B. 280 m
 - C. 17.5 m
 - D. 16 m
4. If the cost of one book is Rs. 10 then the cost of n such books will be
- A. $10 + n$
 - B. $10n$
 - C. $10 - n$
 - D. n
5. In $3 : 4 :: x : 8$, find x.
- A. 3
 - B. 6
 - C. 5
 - D. 4
6. A rectangle has _____ lines of symmetry.
- A. 2
 - B. 3
 - C. 1
 - D. Zero
7. If 6k represents the cost of k chocolates then the cost of 5 chocolates is:
- A. Rs. 30
 - B. Rs. 20
 - C. Rs. 35
 - D. Rs. 20
8. 8.6 when written as a fraction in mixed fraction form is
- A. $8\frac{6}{10}$
 - B. $\frac{86}{10}$
 - C. $\frac{43}{5}$
 - D. $\frac{86}{100}$

9. The value of expression $4y + 12$ at $y = 1$ is
- E. 12
 - F. 16
 - G. 15
 - H. 18
10. Alphabet H has _____ line/s of symmetry.
- A. 2
 - B. 3
 - C. 1
 - D. zero
11. " $9k + 1$ " is same as:
- A. 9 multiplied to 1 and then k is added
 - B. 9 multiplied to k and then 1 is added
 - C. k multiplied to 1 and then 9 is added
 - D. 9 multiplied to k and 1 is added to k
12. Choose the smaller decimal number.
- A. 0.1258
 - B. 0.1254
 - C. 0.1257
 - D. 0.1259

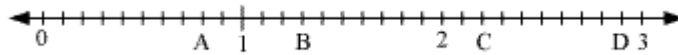
Section B

(Questions 13 to 24 carry 2 marks each)

13. The weight of an empty gas cylinder is 18 kg 75 g. The weight of the gas contained in it is 12 kg 350g. What is the total weight of the cylinder filled with gas?
14. There are four divisions in class VI of a school. Standard VI-A has 10 girls and 12 boys. Standard VI-B has 6 girls and 20 boys. Standard VI-C has 18 girls and 12 boys. Standard VI-D has 16 girls and 24 boys.
- a. Tabulate the data.
 - b. Count the total number of boys and girls from each section.
15. Three sides of a quadrilateral are 30 cm, 40 cm and 25 cm. Find the length of its fourth side if the perimeter is 130cm.

16. Balls are to be transferred from larger boxes into smaller boxes. When a large box is emptied, the balls from it fill two smaller boxes and still 10 balls remains outside. If the number of balls in a small box is taken to be x , what is the number of balls in the larger box?

17. Write the decimal number represented by the points A, B, C, D on the given number line?



18. Length and breadth of a rectangular field are 20 m and 15 m respectively. Find the ratio of the breadth to the length of the field.

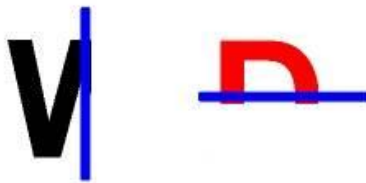
19. Draw any line segment AB. Mark any point P on it. Through P, draw a perpendicular to AB. (Use ruler and compasses only)

20. What is to be added to 74.5 to get 91?

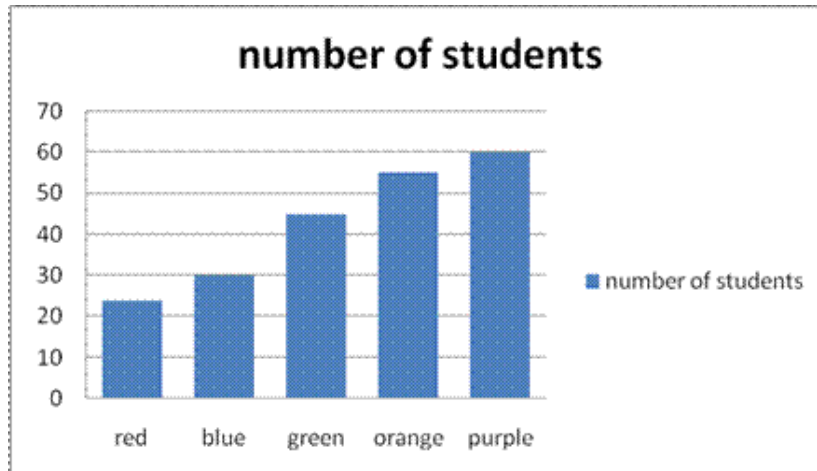
21. Express each of the following as an algebraic expression.

- Sum of y and 7.
- Number a divided by 23.

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



23. The following bar graph shows voting results of the colour preference of students.



- How many students choose blue as their favorite colour?
- How many more students chose green colour than red?






























24. A bus travels at v km per hour. It is going from Delhi to Mumbai. After the train has travelled 15 hours, Mumbai is still 80km away. What is the distance from Delhi to Mumbai? Express it using v .

Section C

(Questions 25 to 32 carry 3 marks each)

25. There are 3 different coloured balls in a bucket. The total number of balls is 55. If the number of blue balls is 25 and others are in a ratio of 2 : 1. Find the number of other two balls. Also, find the ratio of the sum of numbers of the other two to the blue balls.
26. There is a pictograph showing rainfall in cm of different cities named (A, B, C, D, E and F) during the current year. On the basis of this pictograph answer the following questions.



City A	      
City B	         
City C	     
City D	 
City E	  
City F	

- In which city did maximum rainfall occur?
 - In which city did minimum rainfall occur?
 - The city A recorded how much more rainfall than the city F.
27. Draw a right angle triangle right angled at B. Construct perpendicular bisectors of sides AB and BC, locate the point where they intersect.
28. Sachin wants to cover the floor of a room 16 m wide and 15 m long with rectangular tiles of 1.5 m long and 1m wide. Find the number of tiles required to cover the floor.
29. There are 35 girls and 45 boys in the class. Find the ratio of
- Number of boys to the number of girls
 - Number of boys to the total number of students.
30. 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?

31. The length of a rectangular field is twice its breadth. Its perimeter is 180 m. Find its length and breadth.
32. Shrehan is 6 years older than Jasmine. If the sum of their ages is 30, then what are their ages?

Section D
(Questions 33 to 37 carry 4 marks each)

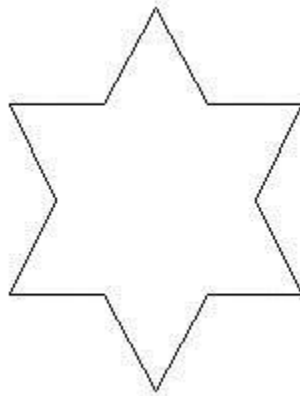
33. Draw a circle of any radius and a chord AB in it. Construct a perpendicular from centre to the chord. Does this perpendicular divide the chord in equal parts?
34. The marks obtained by Kunal in his annual examinations are as shown below:

Subject	Hindi	English	Mathematics	Science	Social Studies
Marks	63	75	90	72	58

Draw a bar graph to represent above data.

35.

- A. Find the measure of \overline{MN} if M is between K and N, $\overline{KM} = 2x - 4$, $\overline{MN} = 3x$ and $\overline{KN} = 26$.
- B. Draw the maximum number of lines of symmetry of the following figure:



36. Express the following as algebraic equation and solve:
(a) Twice a number increased by 6 is 101. What is the number?
(b) Six times a number decreased by 3 is 9. Find the number.
37. Rohit runs around a triangular field of side 30 m each and Mohit runs around a square field of side 25 m. Who covers more distance and by how much?