SECTION – A
(1 mark for each question)

1. Choose the correct option:

1.i. Which of the following show the product of two numbers added to their ratio?

a. c)

b. d)

1.i. Which figure has exactly one line of symmetry

a) isosceles triangle   c) a regular hexagon
b) a regular pentagon  d) a scalene triangle

1.iii. The predecessor of (-4) is
<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>4</td>
<td>c)</td>
<td>3</td>
</tr>
<tr>
<td>b)</td>
<td>-3</td>
<td>d)</td>
<td>-5</td>
</tr>
</tbody>
</table>

1.iv. What happens to the area of a square when its sides are doubled?

a. Remains the same.  
   b. Becomes four times
   c) Doubled  
   d) Tripled

1.v. How many hundredths are there in 5 tenths?

a. 500  
   b. 50  
   c) 5  
   d)  

1.vi. Which of the following is not the same as 3:1?

a. 12:4  
   b. 6:3  
   c) 30:10  
   d) 24:8

1.vii.

a) 1  
   b) -1  
   c) 9  
   d) -9

1.viii. Which letter has no axis of symmetry?

a) W  
   b) L  
   c) O  
   d) E

1.ix. 1500 m$^2$ = _____ ha

a. 1.5  
   b. 15  
   c) 0.15  
   d) 0.015
1. x. Area of a square of side 0.1 cm is
   c. 0.1 cm
d. 0.1 cm$^2$
   c) 0.01 cm
d) 0.01 cm$^2$

SECTION – B

(2 marks for each question)

2. Solve

3. Subtract the smallest 3 digit integer from the greatest 2 digit integer.

4. The weights of 30 students (in Kg) of a class are given below. Prepare a frequency distribution table for the same.
   44, 46, 39, 41, 45, 43, 40, 39, 42, 44, 39, 41, 43, 40, 43, 42, 40, 39, 41, 40, 41, 43, 42, 41, 42, 44, 43, 42, 42

5. On a map, 5 cm represents 400 km. If two towns are shown 20 cm apart on the map, what is the actual distance between them?

6. Express each of the following without decimals.
   (a) 8.01 m
   (b) 0.2 km

7. Find the area of a square whose perimeter is 40 cm.

8. Draw any figure having exactly three lines of symmetry and show the lines of symmetry.

9. A tile measures 10 cm x 10 cm. How many such tiles are required to cover a wall 4m x 2.5 m?

10. Solve

11. Check whether 33, 121, 9, 96 are in proportion.

12. Study the following graph and answer the questions.
On which head does the family spend the most?
What is the difference between the money spent on food and education?

SECTION – C

(3 marks for each question)

14. The following pictograph represents the number of burgers delivered in a day by four delivery boys of a restaurant.

<table>
<thead>
<tr>
<th>Boys</th>
<th>Number of burgers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aman</td>
<td><img src="image1" alt="Burgers" /></td>
</tr>
<tr>
<td>Raghav</td>
<td><img src="image2" alt="Burgers" /></td>
</tr>
<tr>
<td>Shourya</td>
<td><img src="image3" alt="Burgers" /></td>
</tr>
<tr>
<td>Puneet</td>
<td><img src="image4" alt="Burgers" /></td>
</tr>
</tbody>
</table>
a. How many burgers were delivered in all?

b. How many more burgers did Aman deliver than Raghav?

c. Which two boys delivered a total of 75 burgers?

15. The quarterly school fees in Kendriya Vidyalaya for class VI is Rs 540. What will be the fees for seven months?

16. A room is 26 m long and 15 m wide. A 14 m square carpet is laid on the floor. How much area is not carpeted?

17. Represent on the number line.

18. Divide Rs 15000 among A, B and C in the ratio 2 : 3 : 5.

19. Mother wants to divide Rs 88 among her daughters Nisha and Tina in the ratio of their ages. If age of Nisha is 10 years and age of Tina is 12 years, find out how much each will get.

20. Copy the supplement of.

21. Simplify:

22. Draw a circle of radius 6 cm. Draw the perpendicular bisector of one of its diameter. Does this bisector contain another diameter of the circle?

23. Represent using a number line.

24. Find the cost of laying square grass tiles of side 1.2 m in a rectangular lawn of dimensions 6 m x 3.6 m, when the cost of one tile is Rs 18.

25. Find the area of the given figure
26. Take Karishma’s present age to be \( n \) years.
   a. Karishma’s grandfather is 6 times her age. What is her grandfather’s age?
   b. Her grandmother is four years younger to her grandfather. What is her grandmother’s age?
   c. Her father’s age is 2 years more than 4 times her age. What is her father’s age?
   d. If her present age is 12 years, find her father’s and grandmother’s age.

27. In a certain town, the ratio of the number of big cars to mid size cars is 2:7. If there are 1,00,560 big cars, how many mid size cars are there?

28. A school is celebrating winter carnival. The following five students sold tickets for the winter carnival.

<table>
<thead>
<tr>
<th>Name of the student</th>
<th>Pallavi</th>
<th>Richa</th>
<th>Aman</th>
<th>Sarthak</th>
<th>Smita</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of tickets sold</td>
<td>21</td>
<td>14</td>
<td>16</td>
<td>7</td>
<td>18</td>
</tr>
</tbody>
</table>

Draw a bar graph to represent the above data.

29. Kiran bought 5 kg of vegetables for her house. Out of this 2 kg 500 g were potatoes, 450 g were capsicum, 700g were onions and remaining were tomatoes. What was the weight of tomatoes? She gave 250 g of each to her maid. What value do we learn from this?

30. Aakriti’s bank balance was Rs 1050. Her deposits and withdrawals are represented as what is her bank balance now?

31. The length of the side of each square of a chess board is 3 cm. Find the area of the chess board. (a chess board contains 64 squares of equal sides.)