1. Write equations for the following statements:
   (i) The sum of three times a number $x$ and 13 is 25.
   (ii) 5 subtracted from 2 times a number $y$ gives us 3.
2. (i) Name any figure which has both line and rotational symmetry. Draw the figure also.
   (ii) What other name can be given to the line of symmetry of an isosceles triangle. Draw the figure also.
3. What cross sections do you get when you give a vertical cut to the following solids:
   (a) a brick
   (b) a die
   (c) a circular pipe
   (d) an ice cream cone
4. The sum of five times a number and 7 is 22. Find the number.
5. Subtract $(-4a-5b+3c)$ from $(2a+7b-c)$.
6. If 16 kg of potatoes cost Rs. 224, find the cost of 41 kg of potatoes.
7. Simplify the expression: $4a - 4b + 4 - 5 - a$ and find the value if $a=-1$, $b=3$
8. The diameter of a circular garden is 9.8 m. Find its area.
   (take $\pi=\frac{22}{7}$)
9. Add:
   $(x+y-2z), (2x-y+3z), (-x+3y+5z)$
10. Find the circumference of the circle with the radius 14mm.
   
   (take $\pi=22/7$)

11. Solve:

   \[3(x+2)+4=16\]

12. The following number of goals were scored by a team in a series of 9 matches:

   2, 3, 0, 1, 3, 4, 3, 3, 5

   Find the median, mean and mode of this data.

13. The area of a triangle is 36cm$^2$ and the height of the triangle is 3 cm. Find the base.

14. Lata’s father is 57 years old. He is 5 years older than four times Lata’s age. Find how old Lata is?

15. An article was sold for Rs. 540 with a profit of 20%. What was its cost price?

16. Classify into monomials, binomials and trinomials: 5x·11z, 2x+3y-4z, 11ab, m²+mn, 4 + x + x²y, 18xyz

17. A wire is in the shape of a square of side 10cm. If the wire is rebent into a rectangle of length 12cm, find its breadth. Which involves more area, the square or the rectangle?

18. On a journey of (19x+105)km, a man travelled (13x+45)km by train and the rest by bus. Find the distance travelled by him by bus.

19. From a circular sheet of radius 4cm, a circle of radius 3 cm is removed. Find the area of the remaining sheet. (take $\pi=3.14$)

20. Write down the number of edges of each of the following solids:

   (a) a triangular prism

   (b) a sphere

   (c) a square pyramid

21. The following data shows the number of shirts sold by a shopkeeper during five consecutive months. Represent the data by a bar graph.

<table>
<thead>
<tr>
<th>Month</th>
<th>Jan</th>
<th>Feb</th>
<th>March</th>
<th>April</th>
<th>May</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of shirts</td>
<td>200</td>
<td>450</td>
<td>300</td>
<td>250</td>
<td>550</td>
</tr>
</tbody>
</table>

   From the graph answer the following questions?

   (i) How many shirts were sold in February?

   (ii) In which month maximum number of shirts was sold?

   (iii) In which month the least number of shirts were sold?

   (iv) In which month less than 250 shirts were sold?
22. Name the figure and also draw a rough sketch of
   (a) a triangle with both line and rotational symmetries of order more than one.
   (b) A triangle with only line of symmetry and no rotational symmetry of order more than one.
   (c) A quadrilateral with a rotational symmetry of order more than one but not a line of symmetry.

23. From the sum of \((x^2 - y^2 + 1)\) and \((2x^2 + 3y^2 - 3)\), subtract the sum of \((x^2 + 4)\) and \((y^2 - 5)\).

24. Two cross roads each of width 5m run at right angles through the centre of a rectangular park of length 70m and breadth 45m and parallel to its sides. Find the area of the roads. Also find the cost of constructing the roads at the rate of Rs. 105 per sq m.