1. If 30% of x is 210, then x is
   (a) 700
   (b) 1400
   (c) 21
   (d) 210

2. If x : 3 = 14 : 21, then x is
   (a) 98
   (b) 3
   (c) 2
   (d) 4

3. The co-efficient of -3 xy in the expression -3abxy is
   (a) -3ab
   (b) -3abx
   (c) ab
   (d) none of these

4. The value of p + 2 at p = -4 is
   (a) -2
   (b) -3
   (c) 2
   (d) 4

5. The number of lines of symmetry in an equilateral triangle is
   (a) 4
   (b) 2
   (c) 1
   (d) 3
6. The line segments of the skeleton of a solid are called its
   (a) faces                      (b) edges
   (c) vertices                  (d) none of these

7. The mode of the data: 3, 11, 7, 5, 17, 11 is
   (a) 7                        (b) 11
   (c) 13                       (d) 9

8. The area of a square whose perimeter is 36cm is
   (a) $36cm^2$                  (b) $81cm^2$
   (c) $18cm^2$                 (d) $9cm^2$

9. The solution for the equation $\frac{1}{2}x = 4$ is
   (a) $\frac{1}{8}$             (b) 2
   (c) 8                        (d) -8

10. Choose the correct value that satisfies the equation: $z + 25 = 40$
    (a) 15                       (b) 7
    (c) -13                      (d) 10
1. Out of 25 children in a class, 15 are girls. What is the percentage of girls?

2. Combine like terms and simplify the expression:
   \[ 12m^2 - 9m + 5m - 4m^2 - 7m + 10 \]

3. Write two letters of the English alphabet which have reflectional symmetry about a horizontal mirror.
   a) the number of lines of symmetry for a square
   b) a circle

4. Write the number of edges and faces in a cylinder.

5. The area of a rectangular field is 4800 m\(^2\). Its length is 80m. Find its breadth.

6. The diameter of a wheel of car is 70cm. How much distance will it cover in 1 revolution?

7. Solve the equation:
   \[ 3(n - 5) = 21 \]

8. Find a number such that one-fourth of the number is 3 more than 7.

9. There are 8 marbles in a box with numbers from 1 to 8 marked on each of them. What is the probability of drawing a marble with number 6?

10. The heights of 10 girls were measured in ‘cm’ and the results are as follows:
   135, 150, 139, 128, 151, 132, 146, 149, 143, 141.
   What is the range of the data?
11. A school team won 6 games this year and 4 games last year. What is the percent increase?

12. Reeta saves Rs500 from her salary. If this is 10% of her salary, find her salary.

13. If \( A = 5x^2 + 2x - 1 \) and \( B = -3x^2 + 2x + 4 \), find \( B - A \).

14. Find the value of \( a^2 + b - 5 \) if \( a = -1 \) and \( b = 2 \).

15. After rotating by 60° about a centre, a figure looks exactly the same as its original position. At what other angles will this happen for the figure? Write only three angles.

16. Draw the front view, side view and top view of the given figure:

17. Sonam’s father is 49 years old. He is 4 years older than three times Sonam’s age. What is Sonam’s age?

18. Solve: \( 4 + 5(p - 1) = 34 \)

19. Find the area of the shaded portion of a circle with centre O whose radius is 7cm.

20. What is the rate of interest which yields an interest of Rs280 on a sum of Rs56000 for 2 years?
21. Find the mode and median of the given data:
   35, 32, 35, 42, 38, 32, 34, 35, 38
22. Find the mean of first 6 even natural numbers.
23. \(\triangle ABC\) is right angled at A. AD is perpendicular to BC. If \(AB = 5\text{cm}\), \(BC = 13\text{cm}\) and \(AC = 12\text{cm}\), find the area of \(\triangle ABC\). Also, find the length of AD.

\[ \begin{array}{c}
\text{A} \\
5\text{cm} \\
\text{B} \\
12\text{cm} \\
\text{D} \\
13\text{cm} \\
\text{C} \\
\end{array} \]

24. From the sum of \(3x + 2y - 9\) and \(2x - 6y + 2\), subtract \(4x - 9y - 1\)
25. A square park is of side 200m. A path 10m wide is built all around inside it. Find the area of the path.
26. The three angles of a triangle are in the ratio \(2 : 3 : 4\). Find the value of each angle.
27. The marks of a student in different subjects are given below:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hindi</th>
<th>English</th>
<th>Maths</th>
<th>Science</th>
<th>Social Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marks</td>
<td>43</td>
<td>56</td>
<td>80</td>
<td>65</td>
<td>50</td>
</tr>
</tbody>
</table>

Draw a bar-graph to represent the above data.