

CBSE Sample Paper Class 7 Maths Set 1

Max. Marks 80

Section A contains 10 questions which carries 1 mark each ($1 \times 10 = 10$)

Section B contains 9 questions which carries 2 marks each ($2 \times 10 = 20$)

Section C contains 9 questions which carries 4 marks each ($4 \times 5 = 20$)

Section D contains 6 questions which carries 6 marks each ($6 \times 5 = 30$)

Topics:

- Comparing Quantities
- Practical Geometry
- Perimeter and Area
- Symmetry
- Visualizing Solid

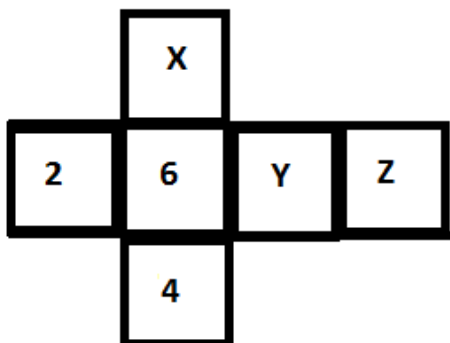
Section A

1. Find the perimeter of a rectangle whose length is 25 cm and breadth is 18 cm.
2. Write frequency of all the numbers in the following data.
8, 5, 8, 5, 3, 4, 7, 9, 7, 4, 3, 5, 3, 6, 4, 8
3. Find the number of lines of symmetry of a circle.
4. What will be the number of faces if there are 6 vertices and 12 edges?
5. $\triangle ABC$ is right angled at B. $AB = 3$ cm and $BC = 4$ cm. Then, length of AC will be
 - a) 25 cm
 - b) 5 cm
 - c) 7 cm
 - d) 6 cm
6. Find the area of a square whose side is 6 cm.
7. A survey shows the ages of 10 teachers of a school as 32,41,26,54,33,38,40,59,43,29. What is the age of the youngest teacher?
8. The number of faces of a triangular pyramid or tetrahedron is _____.
 - a) 5
 - b) 4
 - c) 6
 - d) 10
9. There are 2 red, 3 blue and 5 black balls in a bag. A ball is drawn from the bag without looking in to the bag. What is the probability of getting a red ball?
 - a) $\frac{3}{5}$
 - b) $\frac{1}{5}$
 - c) $\frac{2}{5}$
 - d) None of these
10. What is the circumference of a circular disc of radius 14 cm?

Section B

11. A kennel can accommodate 10 dogs that weigh (in pounds) 14, 23, 17, 19, 27, 7, 33, 24, 11 and 13. Find the range of their weights.

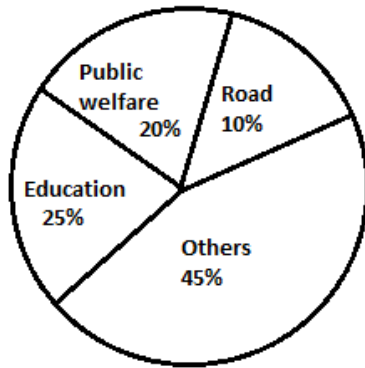
23. Following figure represents net of die numbered from 1 to 6. The sum of numbers on opposite faces in a die is 7. What is the value of $(X \times Y) + (Y \times Z)$?



24. Numbers 1 to 10 are written on ten separate slips (one number on one slip), kept in a box and mixed well. One slip is chosen from the box without looking to it. What is the probability of getting a number 6 and a 4?
25. Write down objects which exhibit rotational symmetry. Can you tell the order of rotational symmetry for an equilateral triangle.

Section D

26. Let l be a line and P be a point not on l . Through P , draw a line m parallel to l . Now join P to any point Q on l . Choose any other point R on m . Through R , draw a line parallel to PQ . Let this meet l at S . What shape do the two sets of parallel lines enclose?
27. Priyanka visits a departmental store and purchases the following articles:
- 2 rain coats for Rs. 500, sales tax at the rate of 12%
 - One pair of sandals for Rs. 480, sales tax at the rate of 8%
 - Food articles for Rs. 300, sales tax at the rate of 6%
 - Clothes for Rs. 1200, sales tax at the rate of 2%
- Calculate the total amount of the bill.
28. Classify the following statements under following categories certain to happen, impossible to happen, may or may not happen. Prepare a neat table and mark each statement under appropriate headings.
- Getting the sum of angles of a triangle as 180°
 - India winning a cricket match against Pakistan
 - Sun setting in the evening
 - Getting 7 when a die is thrown
 - Sun rising from the west
 - Winning a racing competition by you
29. The following pie chart depicts the expenditure of a state government under different heads.



- a. If the total spending is Rs.10 crores, how much money was spent on roads?
 - b. How many times is the amount of money spent on education compared to the amount spent on roads?
 - c. What fraction of the total expenditure is spent on both roads and public welfare together?
30. State and verify the Euler's Formula for a rectangular prism. What will be the number of faces of a polyhedron if the number of vertices are 6 and number of edges are 12?

