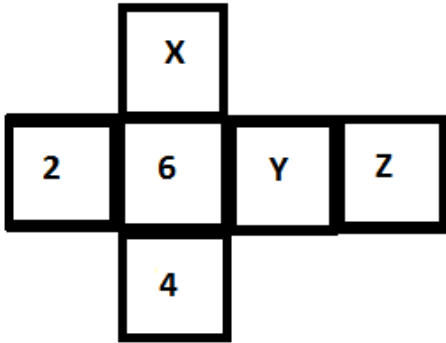


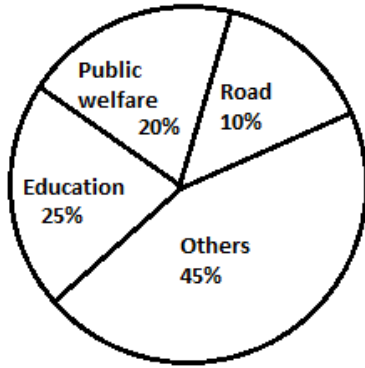
23. Following figure represents net of die numbered from 1 to 6. The sum of numbers on opposite faces in a die is 7. What is the value of $(X \times Y) + (Y \times Z)$?



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 into 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?