

QUESTION

1. The following table shows the results of a survey of 100 people regarding their preferred mode of transport to work. The table is partially filled in.

Mode of Transport	Number of People
Car	45
Bus	30
Cycling	15
Walking	10
Other	5

2. A box contains 100 balls, numbered 1 to 100. A ball is chosen at random. Find the probability that the number on the ball is:

(a) a multiple of 5
 (b) a multiple of 10
 (c) a multiple of 20
 (d) a multiple of 25
 (e) a multiple of 50
 (f) a multiple of 100

SOLUTION

1. The total number of people surveyed is 100. The number of people who prefer each mode of transport is given in the table above.

2. The total number of balls is 100. The number of balls with a number that is a multiple of 5 is 20. The number of balls with a number that is a multiple of 10 is 10. The number of balls with a number that is a multiple of 20 is 5. The number of balls with a number that is a multiple of 25 is 4. The number of balls with a number that is a multiple of 50 is 2. The number of balls with a number that is a multiple of 100 is 1.

PROBABILITY

