Question 23:
Cards are marked with numbers 13, 14, 15, , 60
the number of cards = 48
(i) The numbers on cards which are divisible by 5 are 15, 20, 25, 30, 35, 40, 45, 50, 55, 60
the number of favorable cases = 10
probability of getting a card with a number divisible by 5 = 10/48 = 5/24
(ii) The numbers on cards which are perfect squares are 16, 25, 36, 49
the number of favorable outcomes = 4
probability of getting a card with number which is a perfect square = 4/48 = 1/12

Question 24:
The cards are marked 5 to 50
the total number of cards = 46
(i) Prime numbers less than 10 are 5 and 7
There are two prime numbers
Probability of getting a prime number less than 10 = 2/46 = 1/23
(ii) Perfect square numbers between 5 and 50 are 9, 16, 25, 36, 49
There are 5 cards having perfect square numbers
Probability of getting a card having a perfect square number = 5/46

Question 25:
A leap year has 366 days i.e., 52 weeks and 2 days. These two days can be
(i) Sunday - Monday
(ii) Monday - Tuesday
(iii) Tuesday - Wednesday
(iv) Wednesday - Thursday
(v) Thursday - Friday
(vi) Friday - Saturday
(vii) Saturday - Sunday
Out of these 7 cases , 2 have Fridays
P(getting 53 Fridays) = 2/7

Question 26:
Probability of winning a game = 0.6
Probability of losing game = 1 - (probability of winning game)
= 1 - 0.6 = 0.4

********** END **********