

8. 543 21★ is a 6-digit number, where ★ is an integer from 0 to 9 inclusive. Find the probability that the 6-digit number is a multiple of 4.
9. Two fair dice are thrown. Find the probability that the sum of the two numbers thrown is 9.
10. Two fair dice are thrown. Find the probability that the sum of the two numbers thrown is not a prime number.
11. Two fair dice are thrown. Find the probability that the product of the two numbers thrown is greater than 20.
12. Emily has one \$1 coin, one \$5 coin and one \$10 coin in her wallet. If she draws two coins from her wallet at random, find the probability that she will get enough money to buy an ice-cream of price \$8.
13. Tim has one \$10 note, one \$20 note and one \$50 note. If he draws two notes at random, find the probability that he will get enough money to buy the goods of total price \$29.5 in a supermarket.
14. Miss Lee has one \$10 note, two \$50 notes and one \$100 note in her wallet. If she draws two notes from her wallet at random, find the probability that she will get enough money to buy a pair of shoes of price \$105.
15. A bag contains three balls numbered 1, 4 and 9 respectively while a box contains two cards numbered 3 and 8 respectively. If one ball and one card are randomly drawn from the bag and the box respectively, find the probability that the product of the numbers drawn is an even number.
16. A box contains five cards numbered 1, 3, 5, 7 and 9 respectively. If two cards are randomly drawn from the box, find the probability that the sum of the numbers drawn is divisible by 4.
17. A bag contains five balls numbered 1, 2, 6, 6 and 7 respectively. If two balls are randomly drawn from the bag, find the probability that the sum of the numbers drawn is greater than 8.
18. There are nine cards numbered 1, 2, 3, 3, 8, 9, 10, 12 and n respectively, where n is a positive integer. It is given that the mean of the nine numbers is 7.
 - (a) Find the value of n .
 - (b) A card is randomly drawn from the nine cards. Find the probability that the number drawn is an odd number.
19. There are ten cards numbered 3, 5, 6, 7, 7, 8, 10, 10, 14 and y respectively, where y is a positive integer. It is given that the mode of the ten numbers is 10.
 - (a) Find the value of y .
 - (b) A card is randomly drawn from the ten cards. Find the probability that the number drawn is a multiple of 5.
20. There are twelve cards numbered 2, 2, 4, 5, 8, 9, 9, 9, 11, 12, 15 and m respectively, where m is a positive integer. It is given that the mean of the twelve numbers is 7.5.
 - (a) Find the value of m .
 - (b) A card is randomly drawn from the twelve cards. Find the probability that the number drawn is smaller than 9.