1. **How many ways can 3 students be seated in a row?  
   Answer: 6**
2. **A box contains 5 different colored balls. How many ways can you pick 1 ball?  
   Answer: 5**
3. **In how many ways can you arrange the letters of the word "CAT"?  
   Answer: 6**
4. **How many ways to choose 2 fruits from a basket of 4 different fruits?  
   Answer: 8**
5. **What is the probability of getting a head when flipping a fair coin?  
   Answer: 1/2**
6. **A die is rolled once. What is the probability of getting a number 4?  
   Answer: 1/6**
7. **How many 2-digit numbers can be formed using digits 1, 2, 3 without repetition?  
   Answer: 8**
8. **There are 3 apples and 4 oranges. If one fruit is picked randomly, what is the probability of picking an apple?  
   Answer: 3/7**
9. **How many ways can 4 people stand in a line?  
   Answer: 24**
10. **A bag contains 3 red and 2 green balls. What is the probability of picking a green ball?  
    Answer: 2/5**
11. **How many 3-digit numbers can be formed using digits 1, 2, 3, 4 without repetition?  
    Answer: 24**
12. **In how many ways can a committee of 3 be chosen from 7 people?  
    Answer: 21**
13. **What is the probability of drawing a king from a standard deck of 52 cards?  
    Answer: 4/52 = 1/13**
14. **How many ways can 5 books be arranged on a shelf?  
    Answer: 120**
15. **A box has 6 white and 4 black balls. If one ball is drawn, what is the probability it is black?  
    Answer: 4/10 = 2/5**
16. **How many different passwords can be made using letters A, B, C, D taken 3 at a time?  
    Answer: 24**
17. **What is the probability of getting an even number when a die is rolled?  
    Answer: 3/6 = 1/2**
18. **How many ways can 2 letters be chosen from the word "MATH"?  
    Answer: 6**
19. **What is the probability of drawing a heart from a standard deck of cards?  
    Answer: 1/2**
20. **How many ways can 4 people be arranged around a circular table?  
    Answer: 6**
21. **How many 4-digit numbers can be formed using digits 1, 2, 3, 4, 5 without repetition such that the number is even?  
    Answer: 60**
22. **A box contains 3 red, 4 blue, and 5 green balls. Two balls are drawn at random. What is the probability both are green?  
    Answer: 1/3**
23. **In how many ways can 5 students be arranged in a row if two particular students must not sit together?  
    Answer: 72**
24. **From a group of 10 men and 8 women, how many committees of 4 people can be formed containing at least 2 women?  
    Answer: 70**
25. **A die is rolled twice. What is the probability the sum of numbers is 7?  
    Answer: 1/6**