



1. In how many different ways can letters of the word 'PRAISE' be arranged?

- (a) 720 (b) 610  
(c) 360 (d) 210  
(e) None of these

2. In how many ways can letters of the word 'DELHI' be arranged, so that vowels are always together?

- (a) 24 (b) 60  
(c) 48 (d) 120

3. In how many different ways can letters of the word 'THERAPY' be arranged, so that the vowels never come together?

- (a) 720 (b) 1440  
(c) 5040 (d) 3600  
(e) 4800

4. How many words of 3-3 letters can be made from the word PENCIL?

- (a) 240 (b) 120  
(c) 60 (d) 180

5. In how many ways, the letters of word 'SENSITIVE', can be arranged?

- (a) 45360 (b) 45380  
(c) 44920 (d) 44340

6. In how many different ways can the letters of the word ELEPHANT be arranged so that vowels always come together?

- (a) 2060 (b) 2160  
(c) 2260 (d) 2360

7. How many 5 digit numbers can be formed from the digits 2, 3, 4, 5, 9 assuming no digit is repeated?

- (a) 120 (b) 125  
(c) 130 (d) 135

8. How many 4 digit numbers can be formed by using digits 2, 3, 4 and 5 if repetition of digits is allowed?

- (a) 64 (b) 256  
(c) 24 (d) 120  
(e) None of these

9. In how many ways 3 gifts can be distributed to 8 boys if any boy can have any number of gifts?

- (a) 512 (b) 510  
(c) 514 (d) 508

10. A company puts a code on each product they sell. The code is made up of 4 numbers and 1 letter. How many different codes are possible?

- (a) 2000 (b) 26000  
(c) 260000 (d) 270





11. In a hostel, 10 rooms are vacant. In how many ways can 8 students be assigned these rooms?

- (a)  $10!$  (b)  $\frac{10!}{2!}$   
(c)  $\frac{10!}{8!}$  (d)  $8!$

12. In how many different ways 6 people can sit around a circular table?

- (a) 5040 (b) 24  
(c) 720 (d) 120

13. Find the number of ways in which 6 different beads can be arranged to form a necklace.

- (a) 60 (b) 120  
(c) 180 (d) 200

14. At the end of a business conference the ten people present all shake hands with each other once. How many handshakes will there be all together?

- (a) 20 (b) 45  
(c) 55 (d) 90

15. In how many ways among 4 teachers and 10 students, 2 teachers can be chosen?

- (a) 182 (b) 91  
(c) 273 (d) 145

16. In how many ways, a committee of 3 members can be formed from 5 men and 3 women if in that committee, there will be 2 men and 1 woman?

- (a) 30 (b) 40  
(c) 70 (d) 50

17. There are 9 non-concurrent and non-parallel lines, then possible points of intersection of these lines are

- (a) 40 (b) 36  
(c) 45 (d) 50

18. The total number of triangles that can be formed from 12 points out of which 4 points are collinear

- (a) 220 (b) 224  
(c) 216 (d) 210

19. In how many ways, a group of 7 members can be formed from 6 boys and 4 girls if either 4 boys and 3 girls or 5 boys and 2 girls are to be chosen?

- (a) 36 (b) 60  
(c) 96 (d) 72

