



Class 11 Mathematics | Permutations And Combinations

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. The value of $5!$ is:

A. 24 B. 25 C. 120 D. 60

2. How many two-digit numbers use digits 1,2,3,4 without repetition?

A. 8 B. 6 C. 16 D. 12

3. The number of arrangements of 5 distinct books is:

A. 60 B. 24 C. 25 D. 120

4. The value of $6P2$ is:

A. 30 B. 15 C. 36 D. 12

5. The value of $7C2$ is:

A. 21 B. 42 C. 49 D. 14

6. A committee of 3 is chosen from 8 people. Number of choices?

A. 112 B. 24 C. 56 D. 336

7. How many arrangements of the letters of LEVEL are possible?

A. 120 B. 20 C. 60 D. 30

8. How many 3-digit even numbers use 1,2,3,4 without repetition?

A. 24 B. 12 C. 8 D. 18

9. The value of $8C6$ is:

A. 28 B. 48 C. 16 D. 56

10. If $nP2=20$ and n is positive, n equals:

A. 4 B. 6 C. 10 D. 5

11. A team has 2 boys from 5 and 1 girl from 4. Number of teams?

A. 80 B. 20 C. 60 D. 40

12. How many diagonals does a hexagon have?

A. 12 B. 15 C. 6 D. 9

13. How many arrangements of 4 distinct books keep two specified books together?

A. 6 B. 24 C. 8 D. 12

14. How many 4-digit PINs use 0-9 if repetition is allowed?

A. 9000 B. 5040 C. 9999 D. 10000

15. In how many ways can a captain and vice-captain be selected from 6 players?

A. 30 B. 36 C. 15 D. 12

ANSWER KEY — check after completing all 15 questions

1.C 2.D 3.D 4.A 5.A 6.C 7.D 8.B 9.A 10.D 11.D 12.D 13.D 14.D 15.A

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper

Plot No. 15, Second Floor, Jaisingh Chowk, Sector 85, Gurgaon - 122004

8800 8800 28 | www.goodmarksclasses.com