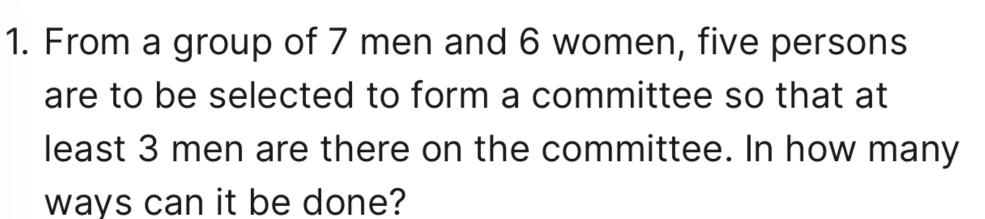


Permutations and Combinations

Class XI

MCQ Worksheet





® 564

B 645

© 735

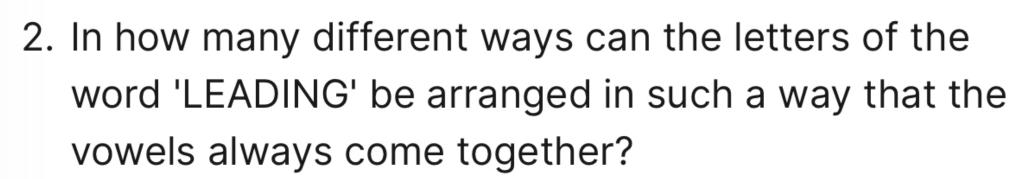
① 756

(E) None of these

Permutations

and

Combinations



3

(A) 360

B 480

© 720

① 5040

None of these

Permutations

and

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



(A) 810

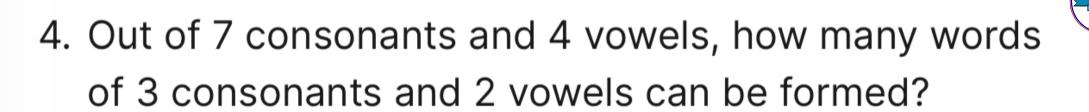
B 1440

© 2880

① 50400

E 5760

Permutations and Combinations



(H) 210

B 1050

© 25200

① 21400

None of these

Permutations

and

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

(A) 72

B 144

© 360

① 720

(E) None of these

Permutations and Combinations



6. In a group of 6 boys and 4 girls, four children are to be selected. In how many different ways can they be selected such that at least one boy should be there?

(A) 159

B 194

© 205

① 209

None of these

Permutations and Combinations



7. How many 3-digit numbers can be formed from the digits 2, 3, 5, 6, 7 and 9, which are divisible by 5 and none of the digits is repeated?

(A) 5

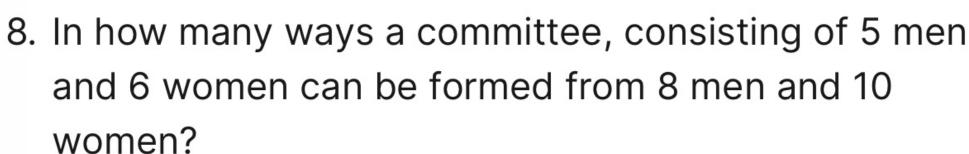
B 10

© 15

① 20

Permutations

and



(A) 266

B 5040

© 11760

(1) 86400

(E) None of these

Permutations and

9. A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the box, if at least one black ball is to be included in the draw?



(A) 32

B 48

© 64

① 96

E None of these

Permutations and



10. In how many different ways can the letters of the word 'DETAIL' be arranged in such a way that the vowels occupy only the odd positions?

(H) 32

B 48

© 36

① 60

E 120

Permutations

and

Combinations



11. In how many ways can a group of 5 men and 2 women be made out of a total of 7 men and 3 women?

(A) 63

B 90

© 126

① 45

E 135

Permutations and

Combinations

12. How many 4-letter words with or without meaning, can be formed out of the letters of the word, 'LOGARITHMS', if repetition of letters is not allowed?

(A) 40

B 400

© 5040

① 2520

Permutations

and

Combinations

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

(A) 10080

B 4989600

© 120960

None of these

Permutations

and

Combinations

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



- **®** 120
- **B** 720
- **©** 4320
- **①** 2160
- None of these

Permutations

and

Combinations



Permutations and Combinations

Class XI

MCQ Worksheet