

# Permutations and Combinations

## Question Paper

Level	Pre U
Subject	Maths
Exam Board	Cambridge International Examinations
Topic	Statistics- Permutations and Combinations
Booklet	Question Paper

**Time Allowed:** 20 minutes

**Score:** /17

**Percentage:** /100

**Grade Boundaries:**

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- 1** There are 15 students enrolled in a Maths club.
- (i) In how many ways is it possible to choose 4 of the students to take part in a competition? [2]
- There are 4 different medals to be allocated, at random, to the students in the Maths club.
- (ii) If there are no restrictions about how many medals a student may receive, in how many ways can the medals be allocated? [2]
- (iii) Find the probability that no student receives more than one medal. [3]
- 2** A game is played with cards, each of which has a single digit printed on it. Eleanor has 7 cards with the digits 1, 1, 2, 3, 4, 5, 6 on them.
- (i) How many different 7-digit numbers can be made by arranging Eleanor's cards? [3]
- (ii) Eleanor is going to select 5 of the 7 cards and use them to form a 5-digit number. How many different 5-digit numbers are possible? [7]