

**COUNTING & PROBABILITY (Q 6, PAPER 2)**

**1998**

- 6 (a) One letter is chosen at random from the letters of the word LEAVING.
- (i) Find the probability that the letter chosen is L.
  - (ii) Find the probability that the letter chosen is a vowel.
- (b) A committee of 4 people is to be formed from a group of 7 men and 6 women.
- (i) How many different committees can be formed?
  - (ii) On how many of these committees is there an equal number of men and of women?
- (c) (i) How many different numbers, each with 3 digits or less, can be formed from the digits 1, 2, 3, 4, 5? Each digit can be used only once in each number.
- (ii) How many of the above numbers are even?

**ANSWERS**

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|---|-----------------------|--------------------|
| 6 | (a) (i) $\frac{1}{7}$ | (ii) $\frac{3}{7}$ |
|   | (b) (i) 715           | (ii) 315           |
|   | (c) (i) 85            | (ii) 34            |