8 **(a)** A 5-digit number is to be formed using 5 different numbers selected from 1, 2, 3, 4, 5, 6, 7, 8 and 9. No digit may be used more than once in any 5-digit number.

(i) Find how many 5-digit numbers can be formed. [1]

(ii) Find how many of these 5-digit numbers are greater than 50 000 and even. [3]

(b) A team of 9 people is to be chosen from 6 doctors, 4 dentists and 2 nurses. Find how many possible teams include at least 2 doctors, at least 2 dentists and at least 2 nurses. [3]