

**8** A club secretary wishes to survey a sample of members of his club. He uses all members present at a particular meeting as his sample.

**(a)** Explain why this sample is likely to be biased. **[1]**

Later the secretary decides to choose a random sample of members.

The club has 253 members and the secretary numbers the members from 1 to 253. He then generates random 3-digit numbers on his calculator. The first six random numbers generated are 156, 965, 248, 156, 073 and 181. The secretary uses each number, where possible, as the number of a member in the sample.

**(b)** Find possible numbers for the first four members in the sample. **[2]**