

- 6** A new village social club has 10 members of whom 6 are men and 4 are women. The club committee will consist of 5 members.
- (a)** In how many ways can the committee of 5 members be chosen if it must include at least 2 men and at least 1 woman? [4]

The 10 members of the club stand in a line for a photograph.

- (b) How many different arrangements are there of the 10 members if all the men stand together and all the women stand together? [2]

(c) How many different arrangements are there of the 10 members in which Olly and Petra stand next to each other on the front row? [4]

This image shows a full page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook or legal stationery. There are no margins, text, or other markings on the page.