

Exercise 1A

- 1** The selection of individual elements of a population.
Advantages: low cost, results obtained faster than a census, represents whole population.
- 2** National census for forecasting social funding: a census is used as it is important that the result is accurate
Survey of a nursery school for the number of carriers of a virus: a census is used as for such a small population size this does not require much resources
- 3** The testing process will destroy the harness, so a census would destroy all the harnesses, meaning that there would be no harnesses left for climbers to use.
- 4**
 - a** Cheaper, quicker.
 - b** The sampling frame is a list of all the members in the population.
 - c** The larger the population, the longer the list, so the larger the sampling frame.
- 5**
 - a** 01, 06, 64, 65, 94, 41 or 01, 18, 70, 97 99, 56: others are possible.
 - b** 079, 056, 110, 086, 143, 108 or 136, 097, 148, 069, 137, 123; others possible.
 - c** 010, 441, 172, 193, 249, 569 or 010, 184, 561, 547, 570, 278.