## 04b Sample Examination Problems Chapter 5

- Write down the sample space of samples of size two without replacement from the population of three persons A, B and C.
- Show that the variance of the mean of a random sample of size n taken from a large population is equal to the population variance divided by the sample size.

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3. Show that the mean of the binomial distribution with n trials and probability of success  $\pi$  has mean  $n\pi$  and variance  $n\pi(1-\pi)$ .