

Edexcel S3 – Ch. 2: Sampling

1. (a) State two reasons why stratified sampling might be chosen as a method of sampling when carrying out a statistical survey.

(2)

- (b) State one advantage and one disadvantage of quota sampling.

(2)

June 2005 Q1

2. Describe one advantage and one disadvantage of

- (a) quota sampling,

(2)

- (b) simple random sampling.

(2)

June 2006 Q1

3. A researcher is hired by a cleaning company to survey the opinions of employees on a proposed pension scheme. The company employs 55 managers and 495 cleaners.

To collect data the researcher decides to give a questionnaire to the first 50 cleaners to leave at the end of the day.

- (a) Give 2 reasons why this method is likely to produce biased results.

(2)

- (b) Explain briefly how the researcher could select a sample of 50 employees using

- (i) a systematic sample,

- (ii) a stratified sample.

(6)

Using the random number tables in the formulae book, and starting with the top left hand corner (8) and working across, 50 random numbers between 1 and 550 inclusive were selected. The first two suitable numbers are 384 and 100.

- (c) Find the next two suitable numbers.

(2)

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