Practice worksheet | Counting and introductory statistics

Samples and populations

Name: _____ Date: _____

6 questions | 16 marks

1. A factory tests 40 bulbs from a day's output of 8,000. Identify population and sample. [2 marks]

2. Explain one advantage and one limitation of a census. [3 marks]

3. A random sample of 80 is needed from 500 members. Describe a valid selection method. [3 marks]

4. There are 240 weekday and 160 weekend members. Allocate a proportional sample of 60. [2 marks]

5. A website asks visitors to vote on school lunch quality. Explain two limits on a school-wide conclusion. [3 marks]

6. A sample finds 28 of 70 students cycle. Calculate the sample proportion and explain why it is not automatically the population proportion. [3 marks]