

The first test is in class on Friday 20 January.

Here are some sample questions, so that you have an idea of what to expect.

1. (a) This guy that you know is worried that he does not fit in here because he does not have piercings like everybody else seems to. He starts asking all his friends that he runs into on campus how many piercings they have, and recording the results.

What is the statistical population?

the population unit?

the sample?

Is the data qualitative?

numerical?

continuous?

discrete?

anecdotal?

- (b) You need to simulate the results of rolling three ordinary (six-sided) dice and adding the result together.

Use the random number table below to get your results. Explain what you did.

6275 4804 5890

0569 2576 8559

1957 6383 7105

4586 0912 8459

- (c) You roll three ordinary (six-sided) dice and add the result together.
What is the probability that your total is 5? Explain how you obtain your answer.

2. Somebody counted something and collected the data:

2 1 2 9 12 12

- (a) Make a relative frequency distribution table.
(b) Compute the median, the first quartile, the third quartile, and the 60th percentile.
(c) Make a boxplot.

3. Somebody measured something and collected the data:

3.0 4.2 5.1 3.5 0.1 3.5 5.5

- (a) Make a dot diagram.
(b) Using the intervals $[0, 1)$, $[1, 2)$, $[2, 3)$, $[3, 4)$, $[4, 5)$, and $[5, 6)$, construct a relative frequency distribution table and make a histogram.
(c) Compute the mean and standard deviation. Mark the mean on your histogram.