

# Univariate data Homework SHEET 1.1

Name: \_\_\_\_\_

- 1 A sample of people were asked: 'Do you support capital punishment?' Their responses were divided into three categories: Yes, No and Unsure. The results were as follows:

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Y	U	Y	Y	N
N	Y	Y	Y	Y
Y	Y	U	N	N
Y	N	U	N	Y
Y	Y	Y	Y	Y
Y	N	N	Y	U

- (a) Construct a frequency distribution table for the data.

- (b) Represent the information using a bar graph.

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- 2 This question refers to information given in question 1:

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- (a) How many people were in favour of capital punishment?
- (b) What was the relative frequency of people in favour of capital punishment?
- (c) What was the percentage who were in favour?
- (d) What type of data does this question illustrate?
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- 3 A restaurant owner surveyed his customers about how they liked the taste of the Christmas Day Special meal. The results are shown below:

delicious	great	fine	fine
delicious	great	delicious	delicious
delicious	delicious	great	great
great	fine	great	delicious
great	delicious	fine	fine

- (a) Construct a dotplot of the data.
- (b) How many customers found the meal delicious?

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- 4 This question refers to the data in question 3:  
(a) What percentage of the customers found the meal delicious?

- (b) What type of data does this illustrate?

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- 5 Explain what is meant by *discrete data* and *continuous data*.

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- 6 The following data gives the lengths in centimetres of 25 red finned trout caught in Lake Eildon in Victoria.

17.3	19.6	20	21.6	21.7
17.6	19.6	20.3	21.1	21.7
18.3	19.4	20.5	20.9	22.8
18.4	19.2	20.6	20.9	22.9
18.8	19.2	20.6	20.8	23.7

Represent the data on a frequency distribution table.

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- 7 (a) Using the result in question 6, draw a histogram of the data.

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- 8 This grouped frequency table gives the number of 'salmon cods' caught by a fisherman on 25 fishing trips.

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Number of salmon cods	Frequency $f$
20-24	1
25-29	2
30-34	4
35-39	4
40-44	6
45-50	8

- (a) Draw a histogram of the data.

- (b) State the skew.
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9 The test marks of 30 students are shown below:

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Test mark	Frequency $f$
40-	3
50-	4
60-	5
70-	8
80-	7
90-	3

- (a) What does 60- mean in the table?
- (b) Copy the above table and add a cumulative frequency column.
- (c) How many students had marks less than 70?

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