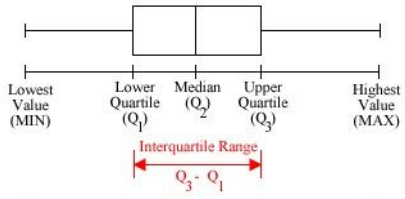
General Maths 2018

Univariate Data



Name:

For each concept you need to tick **one** box in the EXERCISES column and **all three** boxes in the BOUND REFERENCE column.

Concept	Exercises	Bound Reference
An understanding of the different **types of data** and the ability to label **numerical** data as **discrete** or **continuous** and **categorical** data as **nominal** or **ordinal**.	**Exercise 2A** **Entry:** 2 & 4 ☐ **Expected:** 2, 3, & 4 ☐ **Expected+:** 2, 3 & 4 ☐	Concept ☐ How to ☐ Example(s) ☐
How to make and analyse a **frequency table** and construct a **bar chart** in order to analyse **categorical data distributions**.	**Exercise 2B** **Entry:** 1, 4 & 6 ☐ **Expected:** 1, 2, 4 & 6 ☐ **Expected+:** 2, 3, 4 & 6 ☐	Concept ☐ How to ☐ Example(s) ☐
How **discrete** and **continuous** data sets can be **grouped** and how the different types of data are displayed differently on **histograms**.	**Exercise 2D** **Entry:** 1, 3a & 6 ☐ **Expected:** 2, 3ab & 6 ☐ **Expected+:** 2, 3, 6 & 7 ☐	Concept ☐ How to ☐ Example(s) ☐
Describing **histograms** by looking at the **location**, **skew** and **spread** of the data represented.	**Exercise 2E** **Entry:** 1ab & 2ab ☐ **Expected:** 1 & 2 ☐ **Expected+:** 1 & 2 ☐	Concept ☐ How to ☐ Example(s) ☐
Reasons to **choose** between representing data with **dot plots** or **stem and leaf plots** and how to **construct** each of these.	**Exercise 2F** **Entry:** 1, 4, 6 & 8 ☐ **Expected:** 2, 4, 5, 6 & 8 ☐ **Expected+:** 3, 4, 5, 6 & 8 ☐	Concept ☐ How to ☐ Example(s) ☐
An understanding of the terms **mean, median, range, interquartile range** and **standard deviation** and the ability to **calculate** these with and without technology.	**Exercise 2G** **Entry:** 2ab, 3a, 6 & 9a ☐ **Expected:** 2ace, 3b, 5 & 9a ☐ **Expected+:** 2de, 3, 5 & 9 ☐	Concept ☐ How to ☐ Example(s) ☐
The ability to make a **five number summary** of a data set and use this to construct a **boxplot** and identify any **outliers**.	**Exercise 2H** **Entry:** 2, 4 & 8 ☐ **Expected:** 2, 5 & 7 ☐ **Expected+:** 2, 6 & 9 ☐	Concept ☐ How to ☐ Example(s) ☐
An understanding of the use of parallel box plots and back to back stem and leaf plots when comparing data sets.	**Exercise 2I** **Entry:** 1, 3, 4 & 7a ☐ **Expected:** 2, 3, 5 & 7a ☐ **Expected+:** 2, 3, 5 & 7 ☐	Concept ☐ How to ☐ Example(s) ☐