

Subject: Statistics – Higher Paper

Exam Board: AQA 8382

<https://www.aqa.org.uk/subjects/mathematics/gcse/mathematics-8382/specification/subject-content>

Overview

- Two Papers – Calculator Allowed
- The papers are 1 hour each

Revision Sites

Sparx Maths – <https://www.sparxmaths.uk/>

This has extensive revision opportunities via the Independent Study section on the GCSE Mathematics elements that overlap Statistics

Maths Genie - www.mathsgenie.co.uk/statistics

Although not fully containing material it has good practice questions on key higher grade topics. Although it has a lot of Edexcel related material it is suitable for AQA also

Stats Academy - www.statsacademy.co.uk/exam-practice and www.statsacademy.co.uk/revision

Exam practice and revision notes

Other Useful revision resources

- BBC Bitesize Learning - <https://www.bbc.co.uk/bitesize/examspecs/z8sg6fr>
- Oak National Academy - <https://classroom.thenational.academy/subjects-by-key-stage/key-stage-4/subjects/maths>
- Mrs Hodgetts' Statistics - <https://mrshodgettsstatistics.com/edexcel-gcse-statistics-2018-onwards/>

Revision Tips

Revision for Statistics is based upon practice (and more practice). You need to be confident at the skills and concepts that make up the course in order to be able to work through the more challenging problems. Revision should be interactive, not just reading notes

- RAG the topics (**Red** = not confident, **Amber** = have a grasp but need more practice, **Green** = Confident) in the revision list
- Work on the Red and Amber material first – return to the green from time-to-time
- Use the Revision Sites to start to work through these areas
- Work through maths problems and past papers – highlight questions you cannot do and ask friends, parents, teachers for help
- Do not just read your notes/revision guides as you need to practice your Maths skills.

	R	A	G
Averages and their suitability for different types of data			
Birth Rates (formula is given in the question)			
Box plots – drawing and comparing			
Comparative pie charts			
Conditional Probability			
Cumulative frequency step polygons			
Finding quartiles from raw data			
Frequency Tables			
Histograms			
Hypothesis			
Interpreting data correctly; making inferences			
Interquartile Range			
Measures of spread			
Multiple Bar Charts			
Normal distribution – calculating probabilities (properties of the bell curve)			
Normal distribution – displaying			
Percentiles			
Peterson Capture-Recapture method			
Population			
Population Pyramids			
Sample Means			
Sampling Methods			
Skewness			
Standardised scores (formula is given in the question)			
Types of Data			
Understanding effects of outliers on descriptive statistics			
Using Random numbers			
Venn Diagrams - constructing and using			
Writing Probabilities			