**GCE Statistics AO3 practice questions**

AO3 is new to GCE Statistics, and its focus is on reliability and validity. 20% of marks are allocated to this requirement for critical assessment. This is a significant change from the legacy AQA specification, but a welcome and important one, as students must be aware of the limitations of methodologies, not just how to carry them out.

These practice questions have been taken from Edexcel GCE Maths past papers, and are intended to provide examples of the AO3 assessment objective in the new GCE Statistics specification. The questions are relevant to content in the new specification under sections   
1, 6, 7, 8 and 15.

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| **AS level** |
| **Section 1 - Numerical measures, graphs and diagrams** |
| June 2016 S1 - Q5abcf\* May 2013 S1 - Q4 all (f\*) May 2012 S1 - Q5 all (e\*) |
| **Section 6 - Normal distribution** |
| June 2016 S1 - Q5de\* January 2013 S1 - Q5ef\* May 2011 S1 - Q4, Q5de\* |
| **Section 7 - Correlation and linear regression** |
| June 2017 S1 - Q1 all (d\*) June 2016 S1 - Q1 all (e\*), Q3bcde\* June 2015 S1 - Q4 all (f\*) June 2014 S1 - Q3 all (g\*) June 2014 S1R - Q3 all (f\*) January 2012 S1 - Q5 all (f\*) May 2011 S1 - Q7 all (d\*) |
| May 2017 S3 - Q3 all (c\*) |
| **Section 8 - Introduction to hypothesis testing** |
| June 2014 S2 - Q5b\*cd |
| **A level** |
| **Section 15 - Hypothesis testing, significance testing, confidence intervals and power** |
| May 2017 S3 - Q5 all (c\*) |

Further examples of the new AO3 can be found in the GCE Statistics Sample Assessment Materials:

**AS Statistics**

Paper 1 – qus.2b, 3b, 5b, 7c–e

Paper 2 – qus.3, 5, 7b–c, 7e–f, 8b

**A level Statistics**

Paper 1 – qus.4b, 6d, 7b, 8, 10a, 10c, 11b

Paper 2 – qus.3c, 3e, 4b–c, 5b–c, 6b, 7b, 8b

Paper 3 – qus.1b, 4b, 5, 6c, 7a, 7d