

Statistics Past Paper Questions by Topic: The following questions are applicable to the 2017 onwards specification, but are taken from the old specification. However, the marks available for questions in the new A-level may be less due to the increased usage of calculators. Remember ensure you show adequate working!

Representing Data

Mean

- S1 June 2014 - Question 6(c)
- S1 June 2013 - Question 4(a)
- S1 January 2013 - Question 5(c)
- S1 January 2011 - Question 5(b)
- S1 January 2011 - Question 2
- S1 January 2010 - Question 3(a)(b)(c)
- S1 January 2008 - Question 2(a)

Median and Quartiles

- S1 June 2014 - Question 6(b)
- S1 June 2013 - Question 4(b)
- S1 January 2013 - Question 5(b)
- S1 January 2012 - Question 4(b)
- S1 January 2011 - Question 5(a)
- S1 January 2011 - Question 2
- S1 January 2010 - Question 3(d)
- S1 January 2008 - Question 2b

Standard Deviation

- S1 June 2014 - Question 6(c)
- S1 June 2013 - Question 4(a)
- S1 January 2013 - Question 5(c)
- S1 January 2011 - Question 5(b)
- S1 January 2010 - Question 3(c)
- S1 January 2008 - Question 2(a)

Statistical Diagrams

- S1 June 2014 - Question 6(a)
- S1 June 2014 - Question 1
- S1 June 2013 - Question 2(b)(c)(d)
- S1 January 2013 - Question 5(a)
- S1 June 2012 - Question 5
- S1 January 2012 - Question 4
- S1 January 2011 - Question 3
- S1 January 2010 - Question 2
- S1 June 2008 - Question 2

Probability

Tree Diagrams

- S1 June 2014 - Question 4
- S1 June 2012 - Question 7
- S1 January 2011 - Question 7
- S1 January 2010 - Question 1
- S1 June 2010 - Question 2
- S1 June 2008 - Question 1

Venn Diagrams

- S1 June 2014 - Question 8
- S1 June 2013 - Question 3(d)(e)
- S1 January 2013 - Question 7
- S1 June 2012 - Question 4
- S1 January 2012 - Question 6
- S1 June 2011 - Question 6
- S1 January 2010 - Question 4
- S1 June 2010 - Question 4
- S1 January 2008 - Question 5

Discrete Random Variables

Binomial Distribution

- S2 June 2014 - Question 4
- S2 January 2013 - Question 3
- S2 June 2012 - Question 8
- S2 January 2012 - Question 3
- S2 June 2011 - Question 5(b)
- S2 June 2011 - Question 4(c)
- S2 January 2009 - Question 5(a)(b)

Normal Distribution

Normal Distribution

- S1 June 2014 - Question 7
- S1 June 2013 - Question 6
- S1 January 2013 - Question 4
- S1 June 2012 - Question 6
- S1 January 2012 - Question 7
- S1 June 2011 - Question 4
- S1 January 2011 - Question 8
- S1 June 2010 - Question 7
- S1 January 2010 - Question 7
- S1 June 2008 - Question 7
- S1 January 2008 - Question 6

Statistical Approximations

Normal Approximation to the Binomial Distribution

- S2 June 2011 - Question 6

Hypothesis Tests

Binomial Distribution Hypothesis Tests

- S2 June 2014 - Question 5(c)(d)
- S2 January 2013 - Question 6
- S2 June 2012 - Question 2
- S2 January 2012 - Question 2
- S2 June 2011 - Question 6
- S2 January 2009 - Question 3

Binomial Distribution Hypothesis Tests – Normal Approximation

- S2 June 2014 - Question 5(c)(d)

Normal Distribution Hypothesis Tests

- [S3 June 2010 - Question 1](#)

Normal Distribution Hypothesis Tests (Difference of means) – You haven't done central limit theorem. But you can do all these questions ignoring that aspect. If you would like to understand the central limit theorem please see this resource:

- [Central limit theorem](#)

Questions:

- [Maths and Physics Tutor Collection of questions](#)

Correlation and Regression –New Spec Maths Genie

This has changed too significantly but Maths Genie have posted a set of questions by topic for all new A-level content. Here is a link to the AS and A-level correlation ones. The other topic questions will also be useful for revision. **This site also contains videos for each topic.**

- [Maths Genie \(AS\) Correlation and Regression Questions](#)
- [Maths Genie \(AS\) Correlation and Regression Answers](#)
- [Maths Genie \(A Level\) Correlation Hypothesis Testing Questions](#)
- [Maths Genie \(A Level\) Correlation Hypothesis Testing Answers](#)

Mechanics Past Paper Questions by Topic: The following questions are applicable to the 2017 onwards specification, but are taken from the old specification. However, Mechanics has not significantly changed so these will be similar.

Kinematics - Constant Acceleration

Motion in a Straight Line

- M1 June 2014 - Question 3
- M1 June 2013 - Question 4
- M1 June 2012 - Question 5
- M1 June 2011 - Question 1
- M1 June 2009 - Question 1
- M1 January 2009 - Question 2
- M1 June 2008 - Question 2

Velocity Time Graphs

- M1 June 2013 - Question 5
- M1 January 2013 - Question 5
- M1 June 2012 - Question 4
- M1 June 2011 - Question 4
- M1 January 2010 - Question 2
- M1 June 2008 - Question 4

Velocity Vectors

- M1 June 2013 - Question 7
- M1 January 2013 - Question 6
- M1 June 2012 - Question 6
- M1 January 2012 - Question 7
- M1 June 2011 - Question 7
- M1 June 2010 - Question 1
- M1 January 2010 - Question 7
- M1 June 2009 - Question 8
- M1 January 2009 - Question 1
- M1 June 2008 - Question 3
- M1 January 2008 - Question 6

Resolving Forces

- M1 June 2014 - Question 6

Statics of a Particle

Equilibrium

- M1 June 2014 - Question 1
- M1 January 2013 - Question 3
- M1 January 2010 - Question 3

Friction

- M1 June 2013 - Question 3
- M1 June 2012 - Question 3
- M1 June 2011 - Question 3
- M1 June 2009 - Question 5
- M1 January 2009 - Question 5

Equilibrium of a Rigid Body

Moments

- M1 June 2014 - Question 4
 - M1 June 2013 - Question 6
 - M1 January 2013 - Question 2
 - M1 June 2012 - Question 2
 - M1 January 2012 - Question 4
 - M1 June 2011 - Question 5
 - M1 January 2010 - Question 4
 - M1 June 2009 - Question 7
 - M1 January 2009 - Question 4
 - M1 June 2008 - Question 6
 - M1 January 2008 - Question 5
-
- M2 June 2013 - Question 5
 - M2 January 2013 - Question 3
 - M2 January 2012 - Question 5
 - M2 June 2011 - Question 7
 - M2 January 2011 - Question 7
 - M2 June 2010 - Question 6

Dynamics

Newton's Law of Motion ($F = ma$)

- M1 June 2014 - Question 2

Lift Problems

- M1 June 2013 - Question 2

Connected Particles

- M1 June 2014 - Question 7
- M1 June 2013 - Question 8
- M1 January 2013 - Question 7
- M1 June 2011 - Question 6
- M1 June 2010 - Question 8
- M1 January 2010 - Question 6
- M1 January 2009 - Question 7
- M1 January 2008 - Question 7

Projectiles

Projectiles

- M2 June 2013 - Question 6
- M2 January 2013 - Question 6
- M2 January 2012 - Question 7
- M2 June 2011 - Question 8
- M2 January 2011 - Question 6
- M2 June 2010 - Question 7

Kinematics 2

Motion with Variable Acceleration

- M2 June 2013 - Question 3
- M2 January 2012 - Question 2
- M2 June 2011 - Question 6
- M2 January 2011 - Question 3

- M2 June 2010 - Question 1