

**GCE Mathematics – Statistics (MS1A)(MS2A)
GCE Statistics (SS1A)**

Centre name:

Centre no:

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Candidate name:

Candidate no:

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Statistics Unit

Please ✓ unit entered

S1

S2

(A separate form should be used for each unit)

This side is to be completed by the candidate

Sources of advice and information

1. Have you received any help or information from anyone other than your subject teacher(s) in the production of this work? (Write YES or NO)
2. If you have answered YES, give details. Continue on a separate sheet if necessary.
.....
3. If you have used any books, information leaflets or other materials (e.g. videos, software packages or information from the Internet) to help you complete this work, you must list these below, unless they are clearly acknowledged in the work itself. Continue on a separate sheet if necessary. To present material copied from books or other sources without acknowledgement will be regarded as deliberate deception.
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NOTICE TO CANDIDATE

The work you submit for assessment must be your own.

If you copy from someone else or allow another candidate to copy from you, or if you cheat in any other way, you may be disqualified from at least the subject concerned.

Declaration by candidate

I have read and understood the Notice to Candidate (above). I have produced the attached work without any help apart from that which is acceptable under the scheme of assessment.

As part of AQA's commitment to assist students, AQA may make your coursework available on a strictly anonymous basis to teachers, examining staff and students in paper form or electronically, through the Internet or other means, for the purpose of indicating a typical mark or for other educational purposes. In the unlikely event that your coursework is made available for the purposes stated above, you may object to this at any time and we will remove the work on reasonable notice. If you have any concerns, please contact crf@aqa.org.uk

Candidate's signature:

Date:

This form should be completed and attached to the candidate's work and retained at the Centre or sent to the moderator as required.

PTO

MARKING GRID: STATISTICS

Strand	0–8 marks	9–15 marks	16–20 marks	Mark awarded
1. Design	Problem defined and understood. Aims and objectives discussed. Some discussion of how the sample was obtained.	The approach to the task is coherent. The strategies to be employed are appropriate. Clear explanation of how sample was obtained. Some discussion of the statistical theories or distributions used.	A well-balanced and coherent approach. Clear discussion and justification of the statistical theories or distributions used in relation to the task.	/20
2. Data collection and statistical analysis	Adequate data collected. Raw data clearly set out. Some relevant calculations are correct.	A range of relevant statistical calculations are used. Most calculations are correct, and quoted to an appropriate degree of accuracy.	A full range of calculations are used. The calculations are correct and appropriate to the task.	/20
3. Interpretation and validation	A reasoned attempt is made to interpret the results. Some discussion of how realistic the results are. Some discussion of possible modifications.	Results are interpreted. Attempt to relate the task to the original problem. Clear discussion of possible modifications/improvements which could have been made.	Results are fully interpreted within a statistical context. Outcomes are clearly related to the original task. Clear discussion of the effects of the sampling and data collection methods used.	/20
4. Communication	The report is presented clearly and organised with some explanation. Diagrams are effective and appropriate. Conclusions are stated.	The report is clear and well organised. Other areas of work which could have been investigated are discussed. The report is consistent with a piece of work of 8–10 hours.	Appropriate language and notations used throughout. The report is clear and concise and of sufficient depth and difficulty.	/20
			Total mark	/80

Mark breakdown: Statistics

Teacher/assessors' guidance for marking the coursework task. A mark of 20 is allocated to each strand. Marks should be awarded pro rata in accordance with these statements within the given ranges.

Strand 1: Design

- Candidates must state clear aims and so identify their strategies and objectives.
- They must clearly define the population being used.
- They must explain how their sample was obtained and give details of any questionnaires / experiments used.
- There should be clear discussion of which statistical theories or distributions are being used and why.
- Assumptions made should be fully discussed.

Mark breakdown

0 - 4

0 - 2

0 - 6

0 - 6

0 - 2

TOTAL

Strand 2: Data collection and statistical analysis

- Raw data must be recorded and then organised as appropriate.
- An adequate amount of data should be collected.
- The calculations will be correct and appropriate to the statistical model and the content of the unit.
- A sufficient range of relevant calculations and analysis should be used.
- Appropriate degrees of accuracy will have been used in the answers given.

0 - 2

0 - 2

0 - 10

0 - 4

0 - 2

TOTAL

Strand 3: Interpretation and validation

- Candidates must look at how realistic their final results are and, if appropriate, give reasons why the answers are not sensible.
- They should give a clear statistical interpretation of their results, along with suitable conclusions.
- They must relate the outcomes to the original task and discuss the effect of their sampling and data collection methods on their results.
- They must look at what modifications / improvements could have been made with the benefit of hindsight, (but they should not have to make them unless their analysis is so over-simplified that this becomes necessary).

0 - 6

0 - 6

0 - 4

0 - 4

TOTAL

Strand 4: Communication

- Candidates must express themselves clearly and concisely using appropriate mathematical language and notation. Graphs and diagrams should be clearly and accurately labelled.
- Candidates should indicate other areas of work which could have been investigated further.
- The final conclusions should be set out logically.
- The overall piece of work should be of sufficient depth and difficulty.
- The investigation should form a coherent whole and should be of a length consistent with a piece of work of 8–10 hours.

0 - 4

0 - 2

0 - 2

0 - 6

0 - 6

TOTAL

This side is to be completed by the teacher

Marks must be awarded in accordance with the instructions and criteria in section 35 of the specification.

Supporting information to show how the marks have been awarded should be given in the space provided below and/or in the form of annotations on the candidate's work.

Coursework task title

Information to support the award of marks

Concluding comments

Details of additional assistance given (if any)

Record here details of any assistance given to this candidate which is beyond that given to the class as a whole and beyond that described in the specification. Continue on a separate sheet if necessary.

Declaration by teacher

I confirm that the candidate's work was conducted under the conditions laid out by the specification.

I have authenticated the candidate's work and am satisfied that to the best of my knowledge the work produced is solely that of the candidate.

Teacher's signature:

Date: