



GCSE Mathematics

Modular Course

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AQA Mathematics Specification B 4300

No coursework

Three Examinations

Module 1

Handling Data

18% of total 108 UMS marks

Friday 13 November 2009

Two 25 minute papers taken at the same sitting

Each paper worth 23 marks

Module 1 Content

- Handling data
- To include
- Averages
- Processing Data
- Probability

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Module 3

Number

27 % of total 162 ums marks

3 March 2010

Two 45 minute papers taken at the same sitting

Each paper worth 35 marks

Module 3 Content

- Number
- To include
- Fractions decimals and percentages
- Estimation/Rounding
- Indices Square roots

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No coursework

Module 5

Shape Space and Algebra

55 % of total 330 ums marks

Summer 2011

This year's date (2010)

Paper 1 non calculator 7 June

Paper 2 calculator 11 June

- 2 papers each out of 70 marks
- Time 1 hour 15 minutes

Module 5 Content

- Shape Space and Measure
- Algebra
- transformations and properties of shapes, Pythagoras
- solving equations, drawing graphs, formulae



as well as

- A mock examination in January 2011
- Which will be 2 module 5 papers

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- No Coursework required (modules 2 and 4)
- Foundation Grade G-C
- Higher Grade D-A*
- Students can only take any 1 module twice.

Other Mathematics Exams

- Adult Literacy and Numeracy Entry Level Certificate (3 levels)
- Adult Literacy and Numeracy Level 1
- Adult Literacy and Numeracy Level 2 (a level 2 qualification)
- These may be taken alongside G.C.S.E.

Maths Equipment

- Pupils must have the following equipment
 - Scientific Calculator (Sharp el-531wb-wh is available from the school)
 - Ruler
 - Protractor
 - Compass
 - Pencils, Pens

and practice using them on Exam Questions

No Tippex or liquid paper is allowed in examinations

How to Revise...

- Practice Exam Questions
 - Past Papers under exam conditions
 - Revision Guides
 - Use of websites
 - www.mymaths.co.uk login: stwilfrid, password: range
 - www.samlearning.com password & login provided in tonight's booklet
 - www.aqa.org.uk
- Attend Revision Classes:
 - Mondays Tuesday/Wednesdays F 19/21/24 by arrangement
 - with class teacher
 - Monday to Thursday rooms available for study with teachers available to answer questions Computers available to access mymaths etc

Module 1 Higher/Foundation C/D

1. The table shows the distances travelled to school by 50 pupils living in a town.

Distance travelled, d (km)	Frequency
$0 < d \leq 2$	12
$2 < d \leq 4$	18
$4 < d \leq 6$	10
$6 < d \leq 8$	8
$8 < d \leq 10$	2

- (a) Calculate an estimate of the mean distance travelled to school by these pupils.

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Answer

Marks

1. (a) correct midpoints \times correct frequency. M2
 $1 \times 12, 3 \times 18, 5 \times 10, \dots$ minus one for each error
- Σ their (midpoints \times frequency) M1
 $\text{their}(1 \times 12) + \text{their}(3 \times 18) + \text{their}(5 \times 10) + \dots$
- (their 190) $\div 50$ M1
their 190 $\div 50$
- 3.8 or 3 $\frac{3}{5}$ A1

Module 3 Grade E/F

3. The midday temperatures at different ski resorts are shown.

Aspen	-1°C
Breckenridge	-12°C
Wengen	9°C
Soldeu	5°C
La Plagne	-3°C

(a) What is the difference in temperature between Aspen and Wengen?

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Answer $^{\circ}\text{C}$

(1)

(b) The temperature at midnight in Soldeu is 7 degrees lower than the temperature at midday. What is the temperature in Soldeu at midnight?

.....

Answer $^{\circ}\text{C}$

(1)

(Total 2 marks)

Solution

3. (a) 10°C

B1

Allow -10°

(b) -2°C

B1

[2]

Module 5 Higher A* Question

2. Simplify

$$\frac{5x^2 + 14x - 3}{x^2 - 9}$$

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Answer

(Total 4 marks)

Solution

2. $(5x \pm a)(x \pm b)$

M1

M1 for attempt to factorise. Must have $(5x \pm a)(x \pm b)$ where $ab = \pm 3$, a, b must be integers.

$(5x - 1)(x + 3)$

A1

$(x - 3)(x + 3)$

B1

$(5x - 1)(x - 3)$

B1

Answer seen and further work then deduct last B1.

[4]

How can you help?

- Ensure they have their own mathematics equipment for the exam.
- Please encourage regular maths revision
- Offer help, there are many ways to solve a problem
- Never say you were not any good at maths!!

To sum up

- Use all resources available: teachers, past papers, revision guides, websites
- Spread out the revision to 30mins a day 5 days a week
- Minutes = marks, Method = marks
- Know how to use your equipment
- Enjoy maths and remember you CAN do this..

Remember

- “The more I practice the luckier I get”
- Gary Player