Surname		Other Names	
Centre Number		Candidate Number	
Candidate Signature			

General Certificate of Secondary Education
June 2005

AQA

ASSESSMENT and
QUALIFICATIONS
ALLIANCE

MATHEMATICS (MODULAR) (SPECIFICATION B)   **33001/FA**
Module 1 Foundation Tier Section A

Friday 17 June 2005 1.30 pm to 1.55 pm

F

In addition to this paper you will require:
  • a calculator
  • mathematical instruments
  • a treasury tag.

Time allowed for Section A: 25 minutes

Instructions
• Use blue or black ink or ball-point pen. Draw diagrams in pencil.
• Fill in the boxes at the top of this page.
• Answer **all** questions in the spaces provided.
• Do all rough work in this booklet.
• This paper is divided into **two** sections: Section A and Section B.
• After the 25 minutes allowed for Section A, you must put your calculator on the floor under your seat. You will then be given Section B.
• When you have answered Section B you may work again on Section A but you may **not** use your calculator. It must remain on the floor under your seat.
• At the end of the examination tag Section A and Section B together with Section A on top.

Information
• The maximum mark for Section A is 20.
• Mark allocations are shown in brackets.
• Additional answer paper and graph paper will be issued on request and must be tagged securely to this answer booklet.
• You are expected to use a calculator where appropriate.

Advice
• In all calculations, show clearly how you work out your answer.

33001/FA

Answer **all** questions in the spaces provided.

1 (a) The table shows some information about the cars for sale at a garage.

Make	**Colour**	**Price (£)**	**Mileage**
Rover	Silver	7000	21 000
Ford	Black	2 999	63 000
Honda	Green	1 500	124 000
Ford	Black	950	89 000
BMW	White	11 000	25 000
Vauxhall	Red	2 750	55 000
Citroen	Black	895	94 000

(i) Which colour of car is the mode?

Answer .... *(1 mark)*

(ii) How many cars are on sale for less than £2000?

Answer .... *(1 mark)*

(iii) Calculate the range of the mileages of the seven cars.

....

....

Answer .... miles *(1 mark)*

(b) The pictogram shows the number of cars sold by this garage for the first four months of this year.

Key represents 2 cars

January	
February	
March	
April	
May	

(i) How many cars did the garage sell in January?

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Answer .... *(1 mark)*

(ii) The garage sold seven cars in May.

Complete the pictogram.

(2 marks)

(iii) The garage makes £500 profit on each car sold.

How much profit did the garage make in February?

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Answer £ .... *(2 marks)*

Turn over ▶

2 A fair coloured spinner has six equal sections.
One section is red, two sections are yellow and three sections are blue.
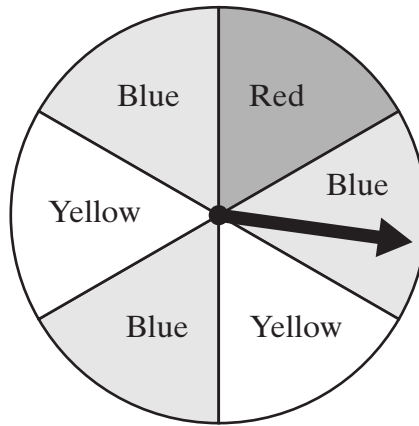
The arrow is spun.

(a) Which is the least likely colour that the arrow will land on?

Answer .... *(1 mark)*

(b) What is the probability that the arrow lands on yellow?

Answer .... *(1 mark)*

(c) Label the probability scale to show the probability of the arrow landing on

   (i) Blue

   (ii) Red.
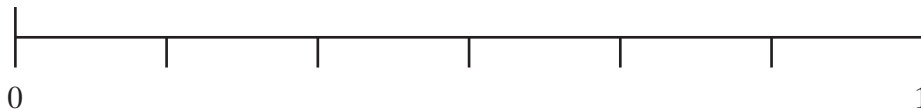
(2 marks)

3   The number of water birds on a nature reserve lake is summarised in the table.

Water birds	Frequency
Herons	4
Geese	6
Swans	10
Ducks	25

Draw and label a pie chart to represent the data in the table.

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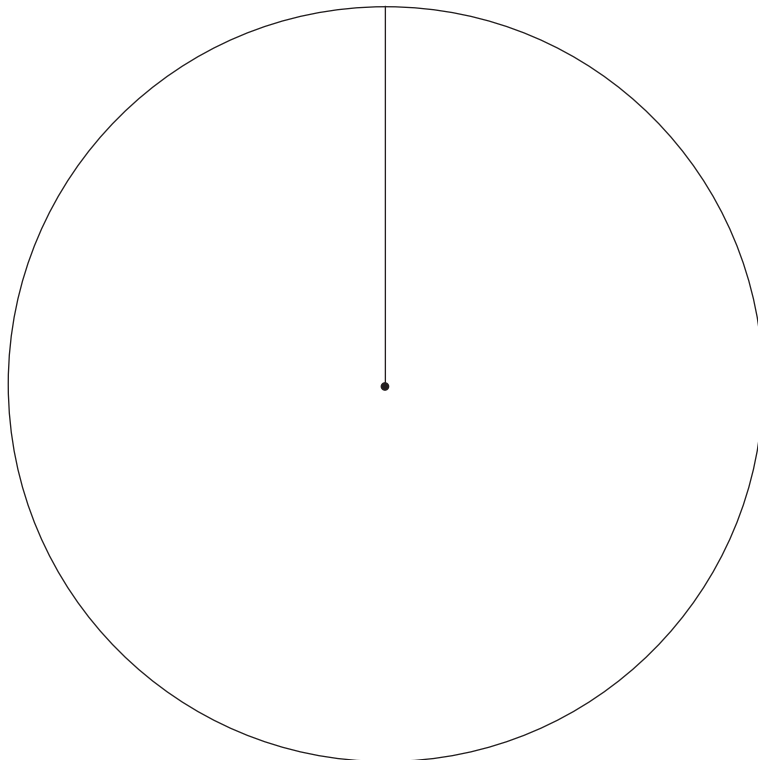
(4 marks)

4

Turn over ▶

4 A telephone company collected data about the number of telephones in each of 60 households.
The table shows the results.

Number of telephones	Number of households
0	2
1	15
2	12
3	10
4	8
5	7
6	5
7	0
8	1

(a) Calculate the total number of telephones in these 60 households.

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Answer .... *(2 marks)*

(b) Calculate the mean number of telephones per household.

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Answer .... *(2 marks)*

END OF SECTION A

4

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