Surname		Other Names	
Centre Number		Candidate Number	
Candidate Signature			

General Certificate of Secondary Education
June 2006

AQA

ASSESSMENT and
QUALIFICATIONS
ALLIANCE

MATHEMATICS (MODULAR) (SPECIFICATION B)   **43001/FA**
Module 1   Foundation Tier Section A

F

Practice Paper (Two-tier Specification) 2008

For this paper you must have:
- 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.
- Answer the questions in the spaces provided.
- Use a calculator where appropriate.
- Do all rough work in this book.
- 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.
- The marks for questions are shown in brackets.
- You may ask for more answer paper and graph paper. These must be tagged securely to this answer book.

Advice

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

43001/FA

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

1 The dual bar chart shows how many pupils were absent from a school in one week.
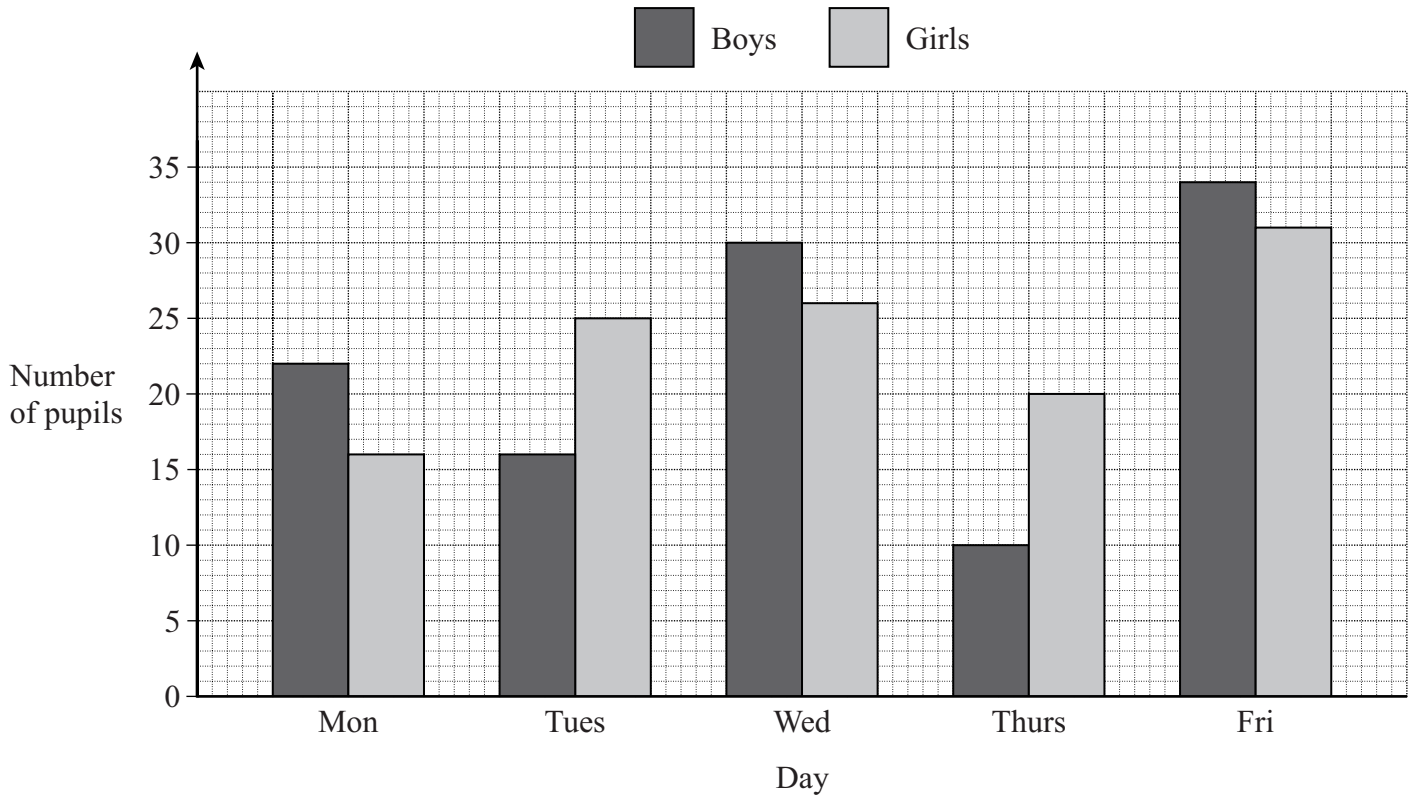
(a) How many boys were absent on Wednesday?

Answer .... *(1 mark)*

(b) On which day were most girls absent?

Answer .... *(1 mark)*

(c) How many pupils were absent on Monday?

....

Answer .... *(2 marks)*

(d) Graham says that, in this week, there were more boys absent than girls.

Is he correct?
You **must** show your working.

....

....

....

Answer .... *(3 marks)*

7

2   The letters of the word 'arithmetic' are written on cards.

| A | R | I | T | H | M | E | T | I | C |
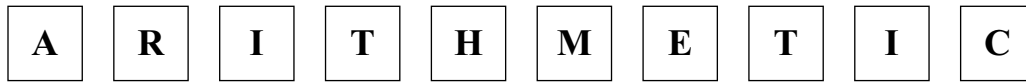
A card is chosen at random.
The probabilities of the following events have been marked on the probability scale below.

T: The letter chosen is a T.

N: The letter chosen is **not** an I.

P: The letter chosen is a P.

Label each arrow with the letter to show which event it represents.

(3 marks)

Turn over for the next question

3 Martin spent £720 last month.

The table shows how he spent this money.
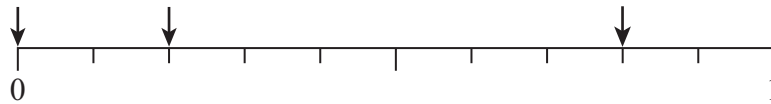
	Amount spent (£)
Rent	280
Food	170
Leisure	120
Clothes	90
Other	60

Draw and label a pie chart to show this information.

....

....

....

(4 marks)

4
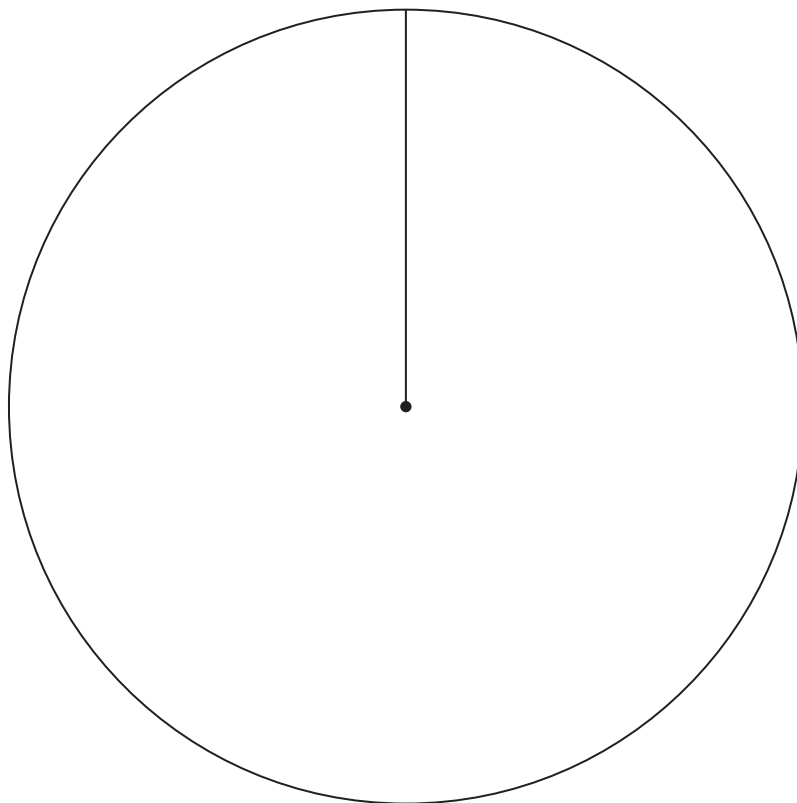
4 The number of magazines sold each day by a village shop is recorded for one month.

Number of magazines	Frequency	
0	6	
1	7	
2	9	
3	4	
4	3	
5	1	
Total	30	

Calculate the mean number of magazines sold each day.

....

....

....

....

Answer .... magazines *(3 marks)*

3

Turn over for the next question

5 A three-sided spinner has sections numbered 1, 2 and 3.
It is spun 20 times.
The results are shown below.

$$2 \quad 1 \quad 1 \quad 3 \quad 1 \quad 2 \quad 3 \quad 3 \quad 2 \quad 3$$
$$1 \quad 2 \quad 3 \quad 2 \quad 2 \quad 3 \quad 2 \quad 3 \quad 1 \quad 3$$

....

....

(a) Use these results to calculate the relative frequency of each number.

Number	1	2	3
Relative frequency			

(2 marks)

(b) The following table shows the relative frequency of each number after 100 spins.

Number	1	2	3
Relative frequency	0.14	0.45	0.41

Rafiq says that this table gives a better estimate for the probability of spinning the number 1.
Is he correct?
Give a reason for your answer.

....

....

(1 mark)

3

END OF SECTION A