Edexcel GCSE

Mathematics B (Modular) – 2544

Paper 8 – Section A (Calculator)

Foundation Tier

Unit 2 Test

Monday 12 November 2007 – Morning

Time for Section A: 20 minutes

Materials required for examination
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Items included with question papers
Nil

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.
Answer ALL the questions. Write your answers in the spaces provided in this question paper.
If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. **(2)**.
This section has 5 questions. The total mark for this section is 15. The total mark for this paper is 30.
There are 8 pages in this question paper. Any blank pages are indicated.
Calculators may be used for Section A only.
If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Advice to Candidates

Show all stages in any calculations.
Work steadily through the paper. Do not spend too long on one question.
If you cannot answer a question, leave it and attempt the next one.
Return at the end to those you have left out.

Turn over

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SECTION A

Answer ALL FIVE questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1. The table shows some information about 5 students.

Name	Age in years	Number of brothers	Number of sisters
Aysha	12	0	2
Becky	9	1	0
Carl	13	1	3
Daniel	7	0	0
Elaine	16	2	2

(a) How many sisters does Carl have?

....
(1)

One student has two brothers.

(b) Write down the name of this student.

....
(1)

One student is less than 10 years of age and has one brother.

(c) Write down the name of this student.

....
(1) Q1

(Total 3 marks)

2. The two-way table gives some information about some cars in a garage.

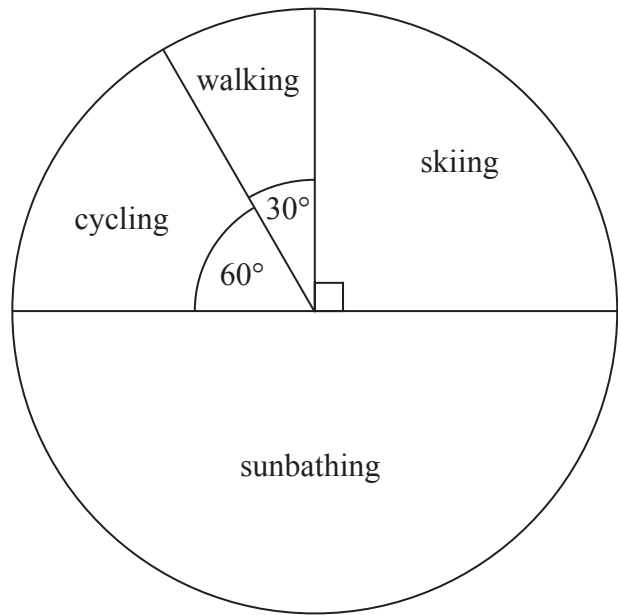|	**Ford**	**Toyota**	**Fiat**	**Total**
3-door	12		8	
4-door		11		34
Total	29	18		

Complete the two-way table.

(Total 3 marks)

3. Noreen carries out a survey of some students.
The pie chart shows some information about their favourite holiday.

5 students said that walking is their favourite holiday.

(a) (i) How many students said that cycling is their favourite holiday?

....

(ii) How many students took part in the survey?

....
(3)

Noreen chooses one of these students at random.

(b) Write down the probability that this student's favourite holiday is cycling.

....
(1)

(Total 4 marks)

Q3

4. 30 adults took part in a survey.
They were each asked how much money they spent on lottery tickets last week.
The table shows the results of the survey.

Money (£)	Frequency	
0	5	
2	16	
4	6	
20	2	
30	1	

Work out the mean amount of money the 30 adults spent on lottery tickets.

£ **Q4**

(Total 3 marks)

5. Liam rolls a fair 6-sided dice once.

Write down the probability that the dice will show a 2 or a 3

....

(Total 2 marks)

TOTAL FOR SECTION A: 15 MARKS

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