

Centre No.						Paper Reference					Surname	Initial(s)			
Candidate No.						5	5	4	2	F	/	8	A	Signature	

Paper Reference(s)

**5542F/8A**

# Edexcel GCSE

**Mathematics B (Modular) – 2544**

Paper 8 – Section A (Calculator)

## Foundation Tier

Unit 2 Test

Monday 18 June 2007 – Morning

Time for Section A: 20 minutes



Examiner's use only

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Team Leader's use only

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Section	Leave Blank
A	
B	

**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.

**You must NOT write on the formulae page. Anything you write on the formulae page will gain NO credit.**

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 4 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  $\pi$  button, take the value of  $\pi$  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.

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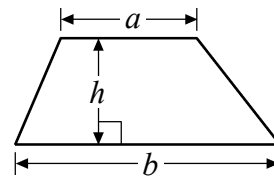
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GCSE Mathematics (Modular) 2544

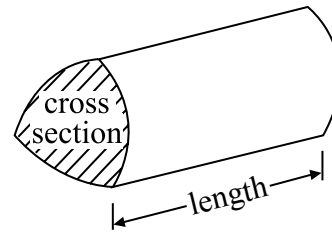
Formulae: Foundation Tier

**You must not write on this formulae page.  
Anything you write on this formulae page will gain NO credit.**

**Area of trapezium** =  $\frac{1}{2}(a+b)h$



**Volume of prism** = area of cross section  $\times$  length



**SECTION A**

**Answer ALL FOUR questions.**

**Write your answers in the spaces provided.**

**You must write down all stages in your working.**

1. Jamal carried out a survey of the colours of the cars in a car park.

The tally chart shows his results.

Colour	Tally
Black	
Red	
Silver	
White	
Yellow	

- (a) How many white cars were in the car park?

.....  
**(1)**

15 cars were the same colour.

- (b) Which colour is this?

.....  
**(1)**

- (c) Work out the **total** number of cars in the car park.

.....  
**(2)**

**(Total 4 marks)**

**Q1**



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2. Here are the weights, in kg, of 8 people.

63    65    65    70    72    86    90    97

(a) Write down the mode of the 8 weights.

..... kg  
(1)

(b) Work out the range of the weights.

..... kg  
(2)

(Total 3 marks)

Q2

3. 90 adults each chose one drink.  
The drinks were lemonade, fruit juice or cola.

The two-way table shows some information about their choices.

	Lemonade	Fruit juice	Cola	Total
Male	13			
Female	11	9		34
Total			20	90

(a) Complete the two-way table.

(3)

One of the females is picked at random.

(b) Find the probability that she will choose fruit juice.

.....  
(2)

(Total 5 marks)

Q3



4. Davina wants to find out how students travel to her school.  
At her school students travel by bus, by bicycle, by car or they walk.  
Design a data collection sheet that she can use to carry out a survey.

Leave  
blank

Q4

(Total 3 marks)

**TOTAL FOR SECTION A: 15 MARKS**

**END**

5



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