

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

Thursday 8 March 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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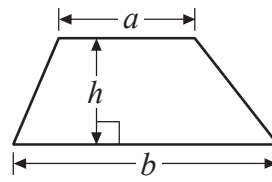
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GCSE Mathematics (Modular) 2544

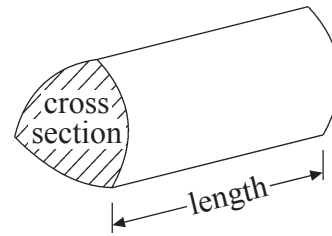
Formulae: Foundation Tier

**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



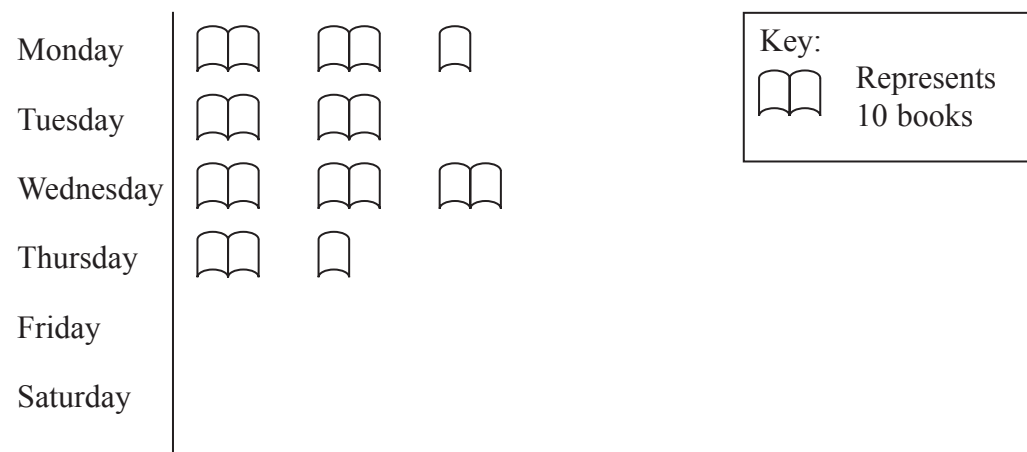
**SECTION A**

**Answer ALL FOUR questions.**

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

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

1. Here is an incomplete pictogram.  
It shows some information about the number of books sold during one week from Monday to Thursday.



- (a) Write down the number of books sold on
- (i) Wednesday, ..... (2)
  - (ii) Monday. ....

On Friday, 20 books were sold.

- (b) Show this on the pictogram. (1)

On Saturday, 35 books were sold.

- (c) Show this on the pictogram. (1)

**(Total 4 marks)**

**Q1**



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2. Here are the ages of 6 people.

5    18    10    14    22    12

(a) Work out the range of these ages.

.....  
(1)

(b) Find the median age.

.....  
(2)

(c) Work out the mean age.

.....  
(2)

(Total 5 marks)

Q2

3. The probability that a spinner will land on red is 0.3  
Sam is going to spin the spinner 150 times.

Work out an estimate for the number of times the spinner will land on red.

.....  
(Total 2 marks)

Q3

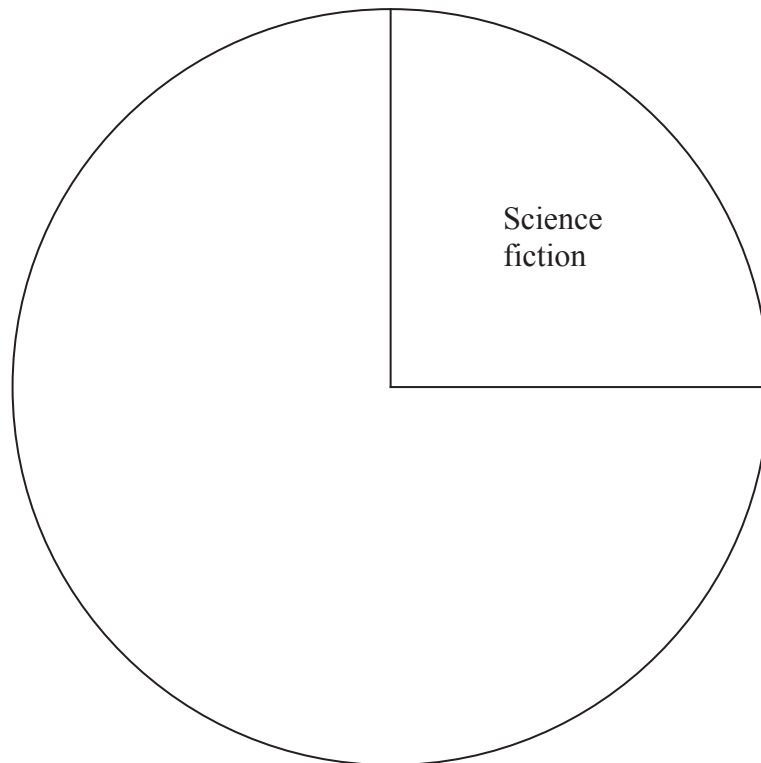


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4. The table shows information about 60 DVDs.

Type of DVD	Number of DVDs	Angle
Science fiction	15	90°
Comedy	20	
Musical	12	
Thriller	13	

(a) Complete the pie chart.



(3)

Paul takes a DVD at random.

(b) Write down the probability that he takes a Science fiction DVD.

.....  
(1)

Q4

(Total 4 marks)

TOTAL FOR SECTION A: 15 MARKS

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