

Centre No.						Paper Reference					Surname	Initial(s)			
Candidate No.						5	5	4	3	F	/	10	B	Signature	

Paper Reference(s)

5543F/10B

Edexcel GCSE

Mathematics B (Modular) – 2544

Paper 10 – Section B (Non-Calculator)

Foundation Tier

Unit 3 Test

Monday 18 June 2007 – Afternoon

Time for Section B: 30 minutes



Examiner's use only

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Team Leader's use only

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Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.
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 10 questions. The total mark for this section is 25. The total mark for this paper is 50.

There are 8 pages in this question paper. Any blank pages are indicated.

Calculators may be used for Section A only.

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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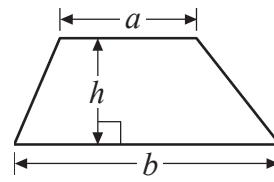
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GCSE Mathematics (Modular) 2544

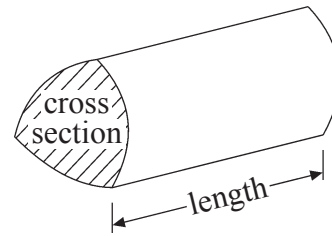
Formulae: Foundation Tier

**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



Leave
blank

SECTION B

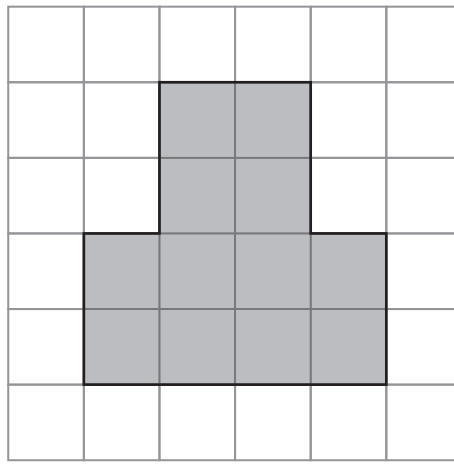
Answer ALL TEN questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

You must NOT use a calculator for this section.

1. This shaded shape is drawn on a centimetre grid.



- (a) Work out the perimeter of the shaded shape.

..... cm
(1)

- (b) Work out the area of the shaded shape.

..... cm²
(1)

(Total 2 marks)

Q1



Leave blank

2. Here are some patterns made from crosses.

× ×

Pattern number 1

× × ×
× × ×

Pattern number 2

× × × ×
× × × ×
× × × ×

Pattern number 3

(a) In the space below draw Pattern number 4

(1)

(b) Complete the table.

Pattern number	Number of crosses
1	$1 \times 2 = 2$
2	$2 \times 3 = 6$
3	$3 \times 4 = 12$
4

(1)

(c) Work out the number of crosses in Pattern number 10

.....
(1)

(Total 3 marks)

Q2



Leave blank

3.



The map shows the temperature in 5 cities, at midnight, one night last year.

(a) Write down the name of the city with the highest temperature.

.....
(1)

(b) Write down the name of the city with the lowest temperature.

.....
(1)

(Total 2 marks)

Q3

4. (a) Write 0.15 as a percentage.

..... %
(1)

(b) Write 35% as a fraction.
Give your answer in its simplest form.

.....
(2)

(Total 3 marks)

Q4



Leave blank

5. Here are two fractions $\frac{4}{5}$ and $\frac{3}{4}$

Explain which is the larger fraction.

You may use the grids to help with your explanation.

.....

.....

.....

(Total 2 marks)

Q5

6. Simplify

(a) $a + a + a + a$

.....
(1)

(b) $2 \times p \times q$

.....
(1)

(c) $3a + 4b + a - 2b$

.....
(2)

(Total 4 marks)

Q6



<p>7. (a) Write down the number of pounds in 1 kg.</p> <p style="text-align: right;">..... pounds (1)</p> <p>(b) Change 4 kg into pounds.</p> <p style="text-align: right;">..... pounds (1)</p> <p style="text-align: right;">(Total 2 marks)</p>	<p>Leave blank</p> <p>Q7</p> <input type="text"/>
<p>8. Work out 25.6×1.6 You must show all your working.</p> <p style="text-align: right;">.....</p> <p style="text-align: right;">(Total 3 marks)</p>	<p>Q8</p> <input type="text"/>



Leave blank

9.

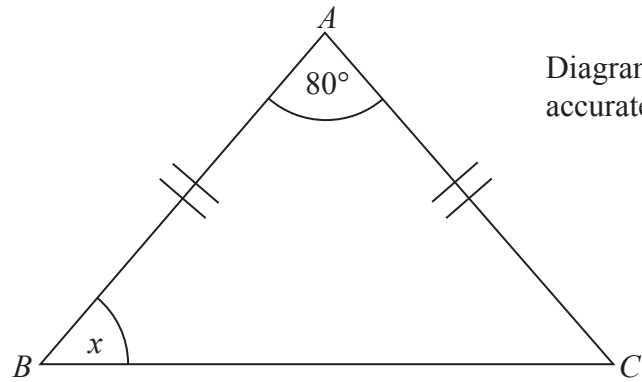


Diagram **NOT** accurately drawn

ABC is an isosceles triangle.

The angle marked x is 50°
Give reasons why.

.....
.....

(Total 2 marks)

Q9

10. Here are the first five terms of an arithmetic sequence.

4 7 10 13 16

Find, in terms of n , an expression for the n th term of the sequence.

.....

(Total 2 marks)

Q10

TOTAL FOR SECTION B: 25 MARKS
TOTAL FOR PAPER: 50 MARKS

END

