

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

Paper Reference(s)

**5543F/10A**

# Edexcel GCSE

**Mathematics B (Modular) – 2544**

Paper 10 – Section A (Calculator)

## Foundation Tier

Unit 3 Test

Monday 12 November 2007 – Afternoon

Time for Section A: 30 minutes



Examiner's use only

--	--	--

Team Leader's use only

--	--	--

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 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.**

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.

This publication may be reproduced only in accordance with Edexcel Limited copyright policy. ©2007 Edexcel Limited.

Printer's Log. No.  
**N30659A**

W850/R5543F/57570 6/6/3/



*Turn over*

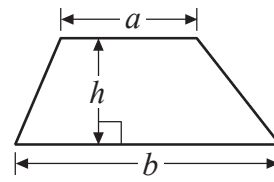
**edexcel**  
advancing learning, changing lives

GCSE Mathematics (Modular) 2544

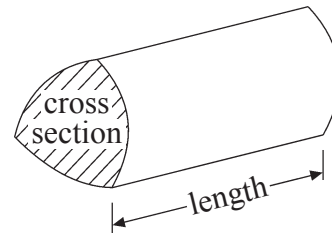
Formulae: Foundation Tier

**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 A**

**Answer ALL TEN questions.**

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

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

1. (a) Write the number **five thousand and thirty six** in figures.

.....  
(1)

- (b) Write the number 3478 to the nearest hundred.

.....  
(1)

**(Total 2 marks)**

**Q1**

2. Here are the first five terms of a simple sequence.

4      7      10      13      16

- (a) Write down the next two terms of the sequence.

..... , .....

(2)

- (b) Explain how you found your answer.

.....  
(1)

**(Total 3 marks)**

**Q2**



<p>3. Write these numbers in order of size. Start with the smallest number.</p> <p>0.73      0.37      0.07      0.3      0.307</p> <p>.....</p> <p style="text-align: right;"><b>(Total 1 mark)</b></p>	<p>Leave blank</p> <p><b>Q3</b></p> <input data-bbox="1612 961 1656 1032" type="text"/>
<p>4. Work out 35% of £400</p> <p>£ .....</p> <p style="text-align: right;"><b>(Total 2 marks)</b></p>	<p><b>Q4</b></p> <input data-bbox="1612 1484 1656 1555" type="text"/>



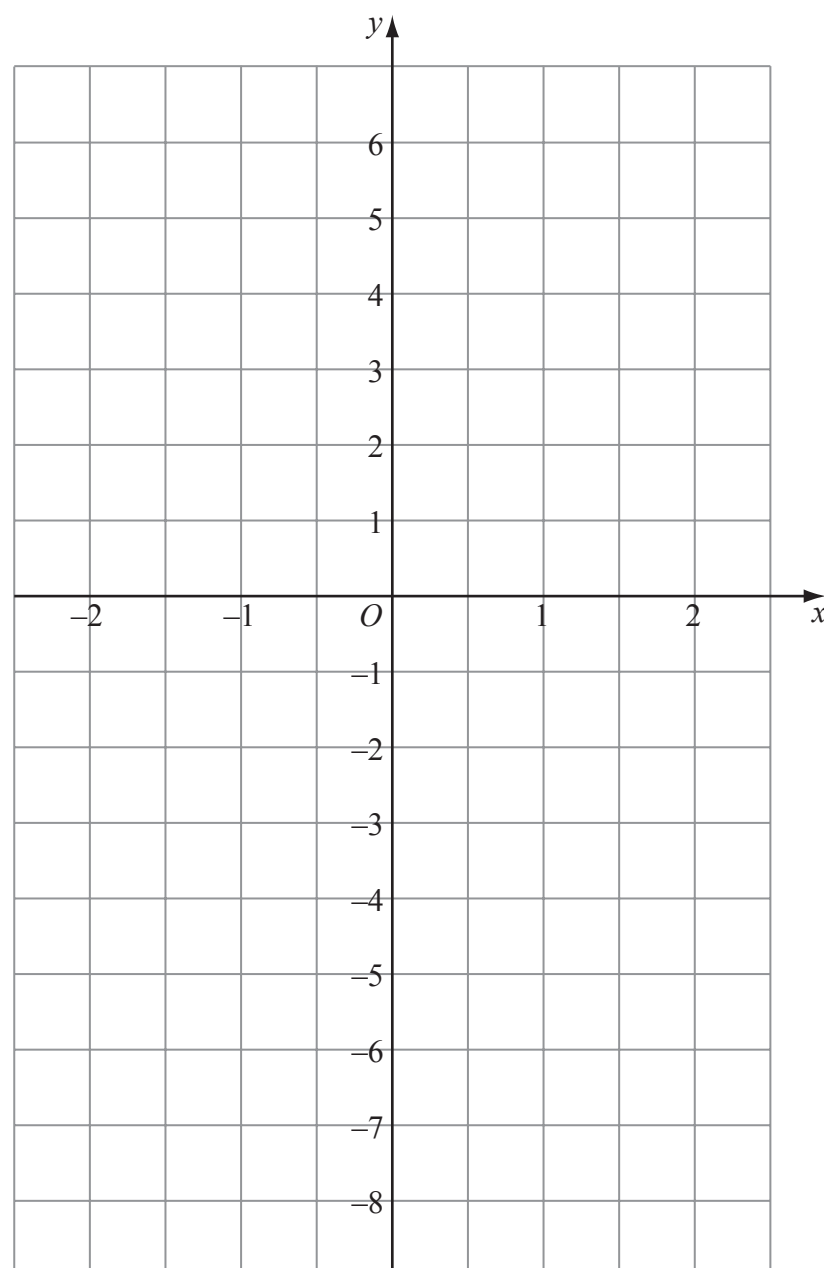
Leave  
blank

5. (a) Complete the table of values for  $y = 3x - 1$

$x$	-2	-1	0	1	2
$y$		-4		2	

(2)

(b) On the grid, draw the graph of  $y = 3x - 1$



(2)

Q5

(Total 4 marks)

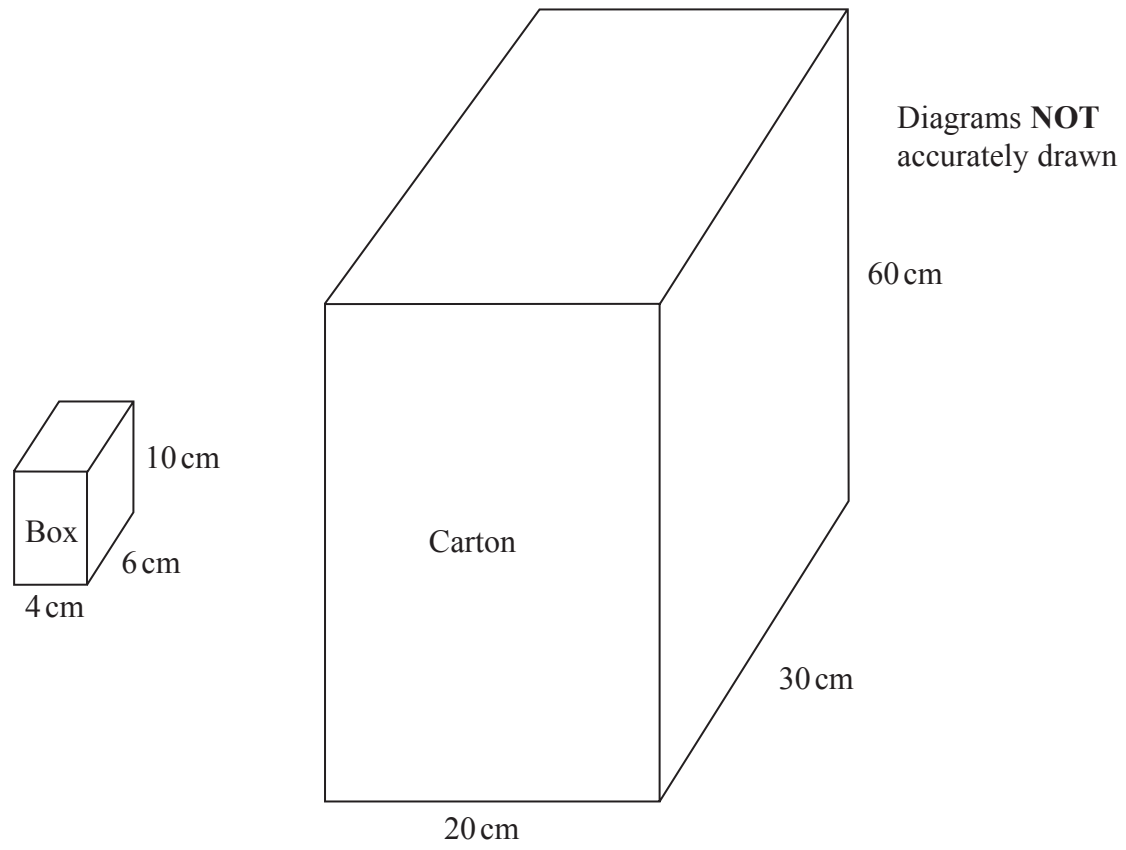
5

Turn over



Leave blank

6.



Boxes are packed into cartons.

A box measures 4 cm by 6 cm by 10 cm.  
A carton measures 20 cm by 30 cm by 60 cm.

The carton is completely filled with boxes.

Work out the number of boxes that will completely fill **one** carton.

.....  
(Total 3 marks)

Q6



<p>7. A car travels for 3 hours. Its average speed is 75 km/h.</p> <p>Work out the total distance the car travels.</p> <p>..... km</p> <p><b>(Total 2 marks)</b></p>	<p>Leave blank</p> <p><b>Q7</b></p> <input type="text"/>
<p>8. (a) Simplify <math>g + g + g</math></p> <p>.....</p> <p><b>(1)</b></p> <p>(b) Simplify <math>5 \times h \times k</math></p> <p>.....</p> <p><b>(1)</b></p> <p><b>(Total 2 marks)</b></p>	<p><b>Q8</b></p> <input type="text"/>



Leave  
blank

9. Here is part of Mrs Cook's gas bill.

Gas Bill	
New reading	6549 units
Old reading	5137 units
	_____
Cost per unit	52p

Work out the **total** cost of the units of gas she used.

£ .....

(Total 4 marks)

Q9

10. Expand and simplify  $(x + 5)(x + 2)$

.....

(Total 2 marks)

Q10

**TOTAL FOR SECTION A: 25 MARKS**

**END**

