

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 18 June 2007 – Afternoon

Time for Section A: 30 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

Examiner's use only

--	--	--

Team Leader's use only

--	--	--

Section	Leave Blank
A	
B	



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 9 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.

N29456A

W850/R5543F/57570 6/6/6



N 2 9 4 5 6 A 0 1 0 8

Turn over

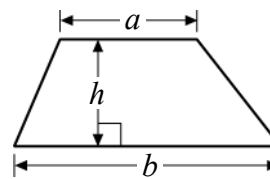
edexcel  
advancing learning, changing lives

**GCSE Mathematics (Modular) 2544**

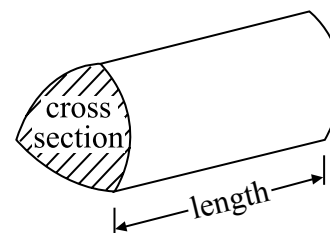
Formulae: Foundation Tier

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

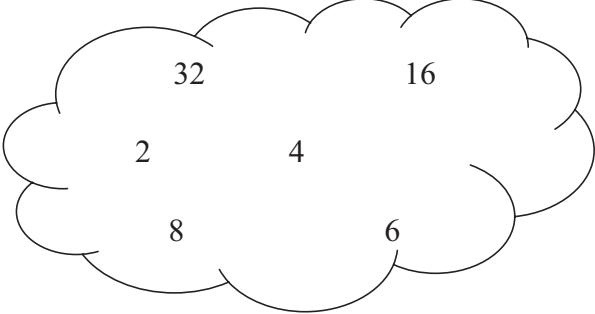
**Area of trapezium** =  $\frac{1}{2}(a + b)h$



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



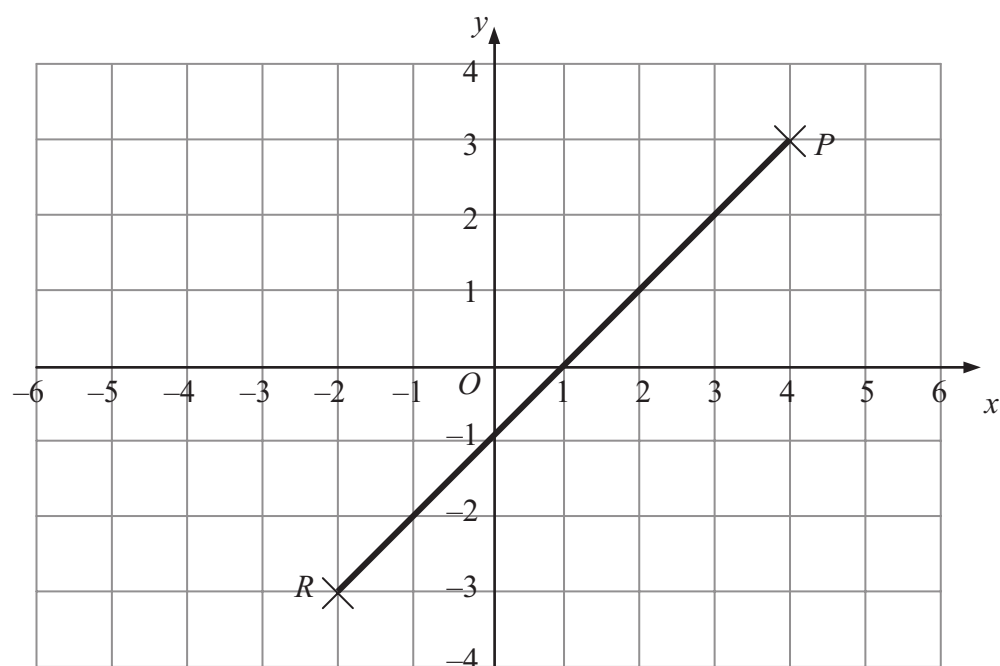


<p style="text-align: center;"><b>SECTION A</b></p> <p style="text-align: center;"><b>Answer ALL NINE questions.</b></p> <p style="text-align: center;"><b>Write your answers in the spaces provided.</b></p> <p style="text-align: center;"><b>You must write down all stages in your working.</b></p> <p>1. (a) Write the number 5264 in words.</p> <p>..... (1)</p> <p>(b) Write the number 5264 to the nearest hundred.</p> <p>..... (1)</p> <p>(c) Write down the value of the 6 in the number 5264</p> <p>..... (1)</p> <p style="text-align: right;"><b>(Total 3 marks)</b></p>		<p>Leave blank</p> <p><b>Q1</b></p> <div></div>
<p>2.</p> <div style="text-align: center;"></div> <p>From the numbers in the cloud, write down</p> <p>(a) a square number,</p> <p>..... (1)</p> <p>(b) the square root of 16,</p> <p>..... (1)</p> <p>(c) the cube of 2,</p> <p>..... (1)</p> <p>(d) the prime number.</p> <p>..... (1)</p> <p style="text-align: right;"><b>(Total 4 marks)</b></p>		<p><b>Q2</b></p> <div></div>



Leave  
blank

3.



(a) Write down the coordinates of the point  $P$ .

(....., .....)  
(1)

(b) On the grid, mark the point  $(-3, 1)$  with a cross ( $\times$ ).  
Label the point  $Q$ .

(1)

(c) Write down the coordinates of the midpoint of the line  $PR$ .

(....., .....)  
(2)

(Total 4 marks)

Q3

4.

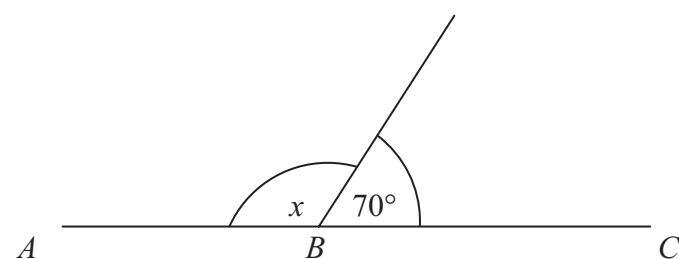


Diagram **NOT**  
accurately drawn

$ABC$  is a straight line.

(i) Work out the size of the angle marked  $x$ .

.....  
°

(ii) Give a reason for your answer.

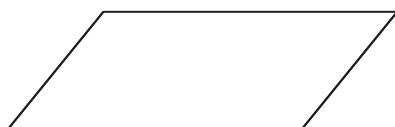
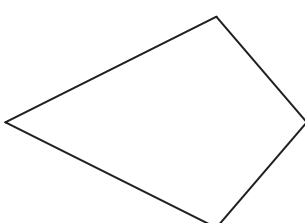
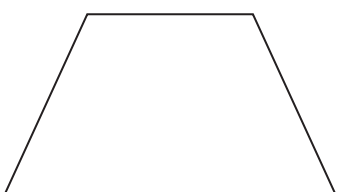
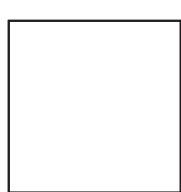
.....

(Total 2 marks)

Q4





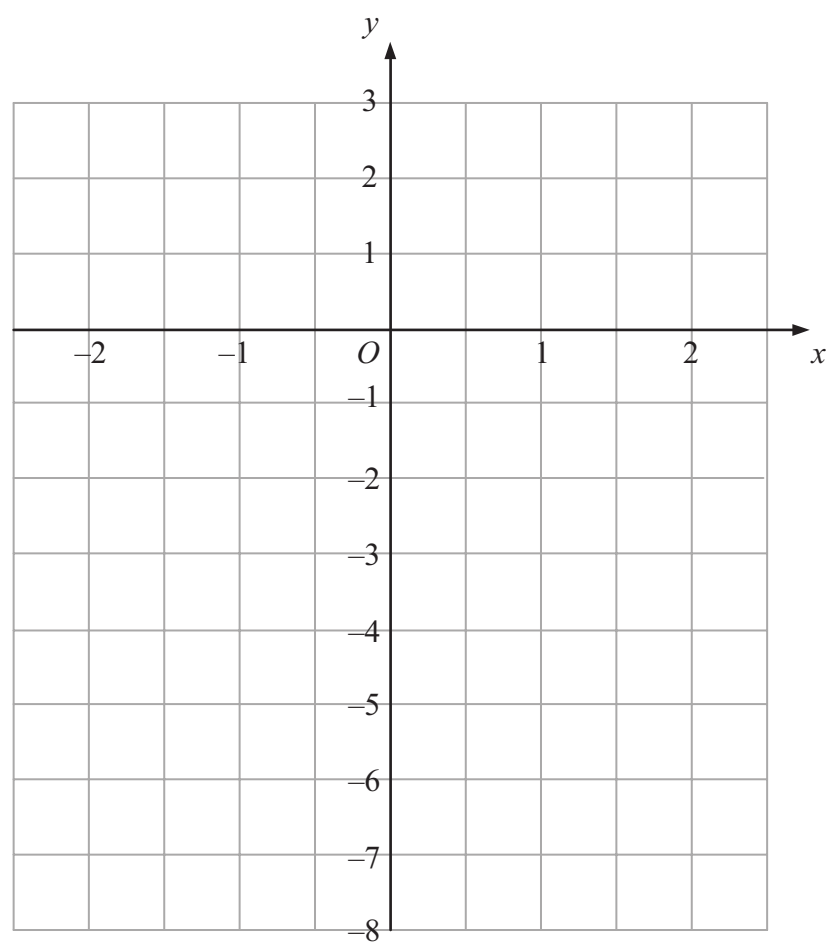
<p>5. Here are some quadrilaterals.</p> <p>Draw an arrow from each quadrilateral to its mathematical name.</p> <p>The square has been done for you.</p> <div data-bbox="493 905 1449 2003"><p>rectangle</p><p>square</p><p>parallelogram</p><p>rhombus</p><p>kite</p><p>trapezium</p></div> <p>(Total 2 marks)</p>	<p>Leave blank</p> <p><b>Q5</b></p> <div data-bbox="1612 2122 1659 2196"><input type="text"/></div>



N 2 9 4 5 6 A 0 5 0 8



6.



On the coordinate grid, draw the graph of  $y = 2x - 3$   
 Use values of  $x$  from  $-2$  to  $+2$

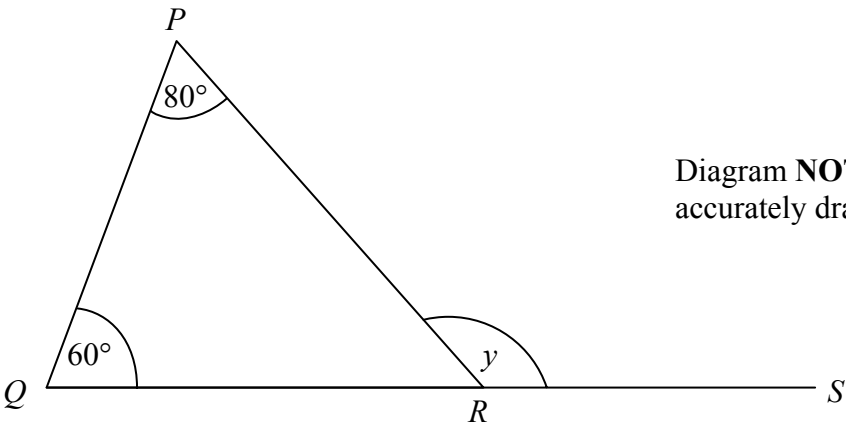
Leave  
blank

Q6

(Total 3 marks)





<p>7.</p> <div data-bbox="730 596 1520 991"></div> <p>Diagram <b>NOT</b> accurately drawn</p> <p><math>PQR</math> is a triangle. <math>QRS</math> is a straight line. Angle <math>P = 80^\circ</math> Angle <math>Q = 60^\circ</math></p> <p>Find the size of the angle marked <math>y</math>.</p> <div data-bbox="1339 1389 1570 1495"><math>y = \dots\dots\dots^\circ</math> (Total 2 marks)</div>	<p>Leave blank</p> <div data-bbox="1614 1389 1656 1495"><b>Q7</b> <input type="text"/></div>
<p>8. Joe travelled 60 miles in 1 hour 30 minutes.</p> <p>Work out Joe's average speed. Give your answer in miles per hour.</p> <div data-bbox="1186 2092 1570 2193"><math>\dots\dots\dots</math> miles per hour (Total 2 marks)</div>	<div data-bbox="1614 2092 1656 2193"><b>Q8</b> <input type="text"/></div>





<p>9. (a) Find the Highest Common Factor (HCF) of 24 and 36</p> <p>.....</p> <p>(1)</p> <p>(b) Write 96 as a product of its prime factors.</p> <p>.....</p> <p>(2)</p> <p>(Total 3 marks)</p>	Leave blank
<p>TOTAL FOR SECTION A: 25 MARKS</p> <p>END</p>	Q9

