Centre No.			Paper Reference			Surname	Initial(s)					
Candidate No.			5	5	4	0	F	/	1	F	Signature	

# Paper Reference(s) 5540F/1F Examiner's use only **Edexcel GCSE** Team Leader's use only Mathematics A (Linear) – 2540 Paper 1 (Non-Calculator) **Foundation Tier** Monday 19 May 2008 - Morning Time: 1 hour 30 minutes

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). There are 29 questions in this question paper. The total mark for this paper is 100. There are 28 pages in this question paper. Any blank pages are indicated. Calculators must not be used.

### **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. ©2008 Edexcel Limited.

Lots more free papers at http://bland.in W850/R5540F/57570 6/6/6/3



Turn over



## **GCSE Mathematics (Linear) 2540**

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 × length

Answer ALL TWENTY NINE questions.		Leave blank
Write your answers in the spaces provided.		
You must write down all stages in your working.		
You must NOT use a calculator.		
<b>1.</b> (a) Write the number 3187 to the nearest thousand.		
	(1)	
(b) Write the number <b>four thousand six hundred and eighty one</b> in figures.		
	(1)	
(c) Write the number 5060 in words.		
	(1)	Q1
(Total 3 mar	·ks)	
<ul> <li><i>AB</i></li> <li>(a) Measure the length of the line <i>AB</i>. Give the units with your answer.</li> </ul>		
(b) On the diagram, mark with a cross ( $\times$ ) the midpoint of the line <i>AB</i> .	(2)	
	(1)	Q2
(Total 3 mar	·ks)	

<b>3.</b> Sharif buys some fruit. The pictogram shows information about the number of apples and the number of orang	Leave blank ges
he buys.	
Apples	
Oranges	
Peaches	
Key: represents 8 fruit	
(a) Write down the number of apples he buys.	
(b) Write down the number of oranges he buys.	(1)
	(1)
Sharif buys 12 peaches.	
(c) Use this information to complete the pictogram.	(1) <b>Q3</b>
(Total 3 mar	ks)

<ul> <li>4. (a) Write these numbers in order of size. Start with the smallest number.</li> <li>17 6 168 24</li> <li></li></ul>	Leave blank
(1) (Total 2 marks) 5. The total cost of these 2 pens is 60p. Work out the total cost of 5 of these pens. Give your answer in pounds.	Q4
£	Q5

Hull				
100	Leeds			
162	73	Manchester		
110	60	65	Sheffield	
63	40	118	95	York
) Write down th	ne distance betw	een Hull and Manc	hester.	
				km
				(1
) From the table	e, write down th	e name of the city	which is	
(i) nearest to	Hull	·		
(I) nearest to	i i i u i i,			
(ii) 60 km fro	om Sheffield.			
				(2
				(Totol 2 monles)
				(Total 5 marks





Here are his results.

Favourite colour	Tally	Frequency
Red		6
Blue		8
Green		5
Yellow		3

(a) Complete the bar chart to show his results.



Leave blank



		Leave blank
<b>10.</b> Work out		
(i) $3 \times 3 - 5$		
(1) 20 $(12 - 2)$		
(11) $20 \div (12 - 2)$		
(iii) $7 + 8 \div 4$		
		Q10
	(Total 3 marks)	
	(Total 5 marks)	
<b>11.</b> (a) Here are some fractions.		
$\frac{2}{2}$ $\frac{4}{2}$ $\frac{2}{7}$		
4 8 5 14		
Which one of these fractions is <b>not</b> equal to $\frac{1}{2}$ ?		
2		
Give a reason for your answer		
Give a reason for your answer.		
2	(2)	
(b) Work out $\frac{3}{4}$ of 20		
	(2)	Q11
	(Total 4 marks)	

<b>12.</b> $P = 3n$ n = 6	ł		Leave blank
(a) W	York out the value of <i>P</i> .		
		<i>P</i> =(1)	
Q = 2c $c = 3$ $d = 2$	c + d		
(b) W	York out the value of Q.		
		Q =(2)	Q12
		(Total 3 marks)	
<b>13.</b> (a) Co	omplete the table by writing a sensible <b>metric</b> unine first one has been done for you.	t for each measurement.	
Т	The length of the river Nile	6700 kilometres	
Т	The height of the world's tallest tree	110	
Т	The weight of a chicken's egg	70	
Т	The amount of petrol in a full petrol tank of a car	40	
(b) Ch	hange 4 metres to centimetres.	(3)	
		cm (1)	
(c) Ch	hange 1500 grams to kilograms.		
		kg (1)	Q13
		(Total 5 marks)	





<b>16.</b> (a) Write 92% as a decimal.	Leave
(b) Write 3% as a fraction.	(1)
(c) Work out 5% of 400 grams.	(1)
	grama
······	(2) Q16
(10131	4 marks)





	Leave
<b>19.</b> Kaysha has a part-time job.	Diank
She is paid £5.40 for each hour she works.	
Last week Kaysha worked for 24 hours.	
Work out Kaysha's total pay for last week	
work out Ruyshu s total puy for fast week.	
C.	019
L	
(Total 3 marks)	
<b>20</b> (c) Work out $1 + 1$	
20. (a) Work out $\frac{-}{3} + \frac{-}{12}$	
(2)	
3 1	
(b) Work out $\frac{-}{4} \times \frac{-}{5}$	
(1)	<b>Q20</b>
(Total 3 marks)	

Lots more free past papers at http://bland.in

<b>21</b> . (a)	) Simplify $d + d + d + d$		Leave blank
		(1)	
(b)	) Simplify $y^2 + y^2$		
		(1)	
(c)	) Expand $4(3a - 7)$		
(d)	) Simplify $t \times t^2$	(2)	
		(1)	
(e)	) Simplify $m^5 \div m^3$		
		(1)	Q21
		 (1) rks)	Q21
	 (Total 6 mai	 (1) rks)	Q21
	 (Total 6 mai	 (1) rks)	Q21
		 (1) rks)	Q21
	(Total 6 mar	 (1) rks)	Q21
	(Total 6 mar	 (1) rks)	Q21
	(Total 6 mar	 (1) rks)	Q21
	(Total 6 mar	 (1) rks)	Q21

 22. Here are the ages, in years, of 15 teachers.

35	52	42	27	36
23	31	41	50	34
44	28	45	45	53

(a) Draw an ordered stem and leaf diagram to show this information. You must include a key.



Lots more free past papers at Ottp://bland.in

Leave blank

		Leave blank
23.	David buys some stamps.	
	Each stamp costs 25p.	
	The total cost of the stamps is $\pm 3$	
	(a) Work out the number of stamps David buys.	
	(2)	
	Adam, Barry and Charlie each buy some stamps. Adam buys x stamps	
	Barry buys three times as many stamps as Adam.	
	(b) Write down an expression, in terms of $x$ , for the number of stamps Barry buys.	
	(1)	
	Charlie buys 5 more stamps than Adam.	
	(c) Write down an expression, in terms of $x$ , for the number of stamps Charlie buys.	
	(1)	Q23
	(Total 4 marks)	



25	Using the information that		blank
25.	Using the information that		
		$4.8 \times 34 = 163.2$	
	write down the value of		
	(a) 48×34		
		(1)	
	(b) 4.8×3.4		
		(1)	
	(c) $163.2 \div 48$		
			025
		(Total 3 marks)	
	3	302×9.96	
26.	Work out an estimate for $\frac{3}{4}$	$\frac{302 \times 9.96}{0.51}$	
26.	Work out an estimate for $\frac{3}{2}$	$\frac{302 \times 9.96}{0.51}$	
26.	Work out an estimate for $\frac{3}{4}$	$\frac{302 \times 9.96}{0.51}$	
26.	Work out an estimate for $\frac{3}{-}$	$\frac{302 \times 9.96}{0.51}$	
26.	Work out an estimate for $\frac{3}{2}$	<u>302×9.96</u> 0.51	
26.	Work out an estimate for $\frac{3}{2}$	$\frac{302 \times 9.96}{0.51}$	
26.	Work out an estimate for $\frac{3}{2}$	$\frac{302 \times 9.96}{0.51}$	
26.	Work out an estimate for $\frac{3}{2}$	$\frac{302 \times 9.96}{0.51}$	026
26.	Work out an estimate for $\frac{3}{2}$	<u>302×9.96</u> 0.51	Q26
26.	Work out an estimate for $\frac{3}{2}$	<u>302×9.96</u> 0.51 	Q26
26.	Work out an estimate for $\frac{3}{2}$	302×9.96 0.51 	Q26
26.	Work out an estimate for $\frac{3}{2}$	<u>302×9.96</u> 0.51 	Q26
26.	Work out an estimate for $\frac{3}{2}$	<u>302×9.96</u> 0.51 	Q26

	Leave blank
<b>27.</b> In the space below, use ruler and compasses to <b>construct</b> an equilateral triangle with sides of length 6 centimetres.	
You must show all your construction lines.	
One side of the triangle has already been drawn for you.	
	037
(lotal 2 marks)	
<b>28.</b> $-2 \le x < 3$ x is an integer.	
Write down all the possible values of <i>x</i> .	
	Q28
(Total 2 marks)	





**BLANK PAGE** 

**BLANK PAGE** 

**BLANK PAGE**