Centre No.							Pape	er Refer	ence			Surname	Initial(s)
Candidate No.					1	3	8	0	/	2	F	Signature	
		Pape	r Reference(	(s)									

# 1380/2F

# **Edexcel GCSE**

Mathematics (Linear) – 1380

Paper 2 (Calculator)

# **Foundation Tier**

Exam	iner's us	e only
Team L	eader's u	ise only

Friday 12 November 2010 – Morning Time: 1 hour 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

### **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 27 questions in this question paper. The total mark for this paper is 100.

There are 24 pages in this question paper. Any blank pages are indicated.

#### Calculators may be used.

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. ©2010 Edexcel Limited.





Turn over

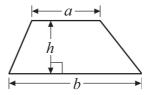
advancing learning, changing lives

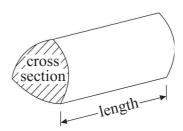
## GCSE Mathematics (Linear) 1380

Formulae: Foundation Tier

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

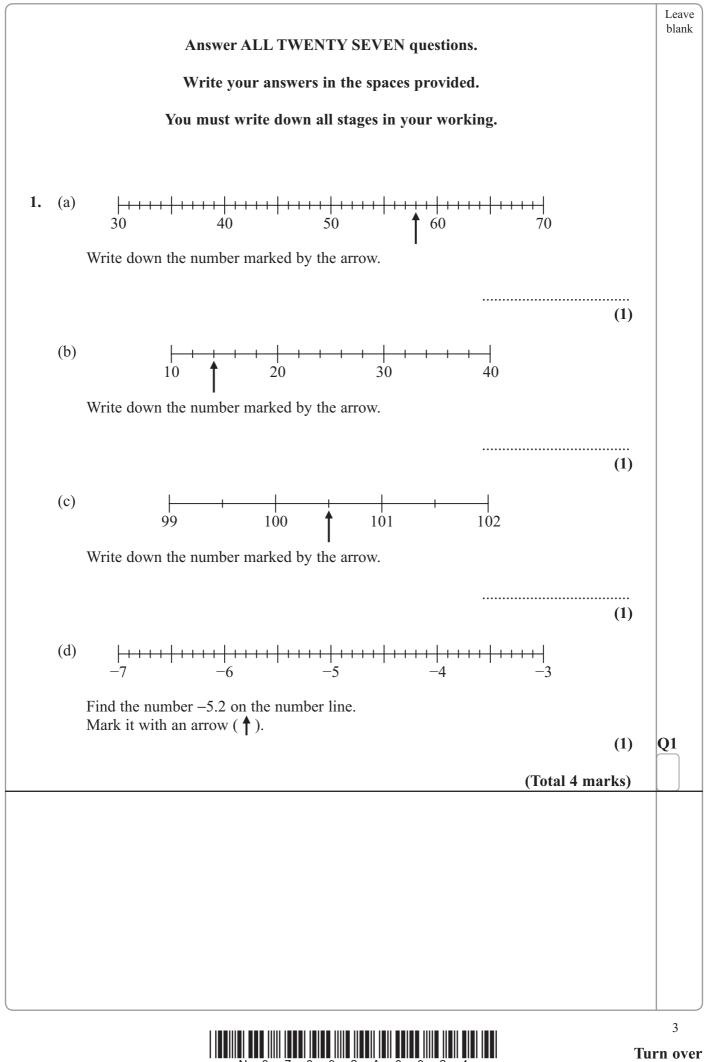
Area of trapezium =  $\frac{1}{2}(a+b)h$ 





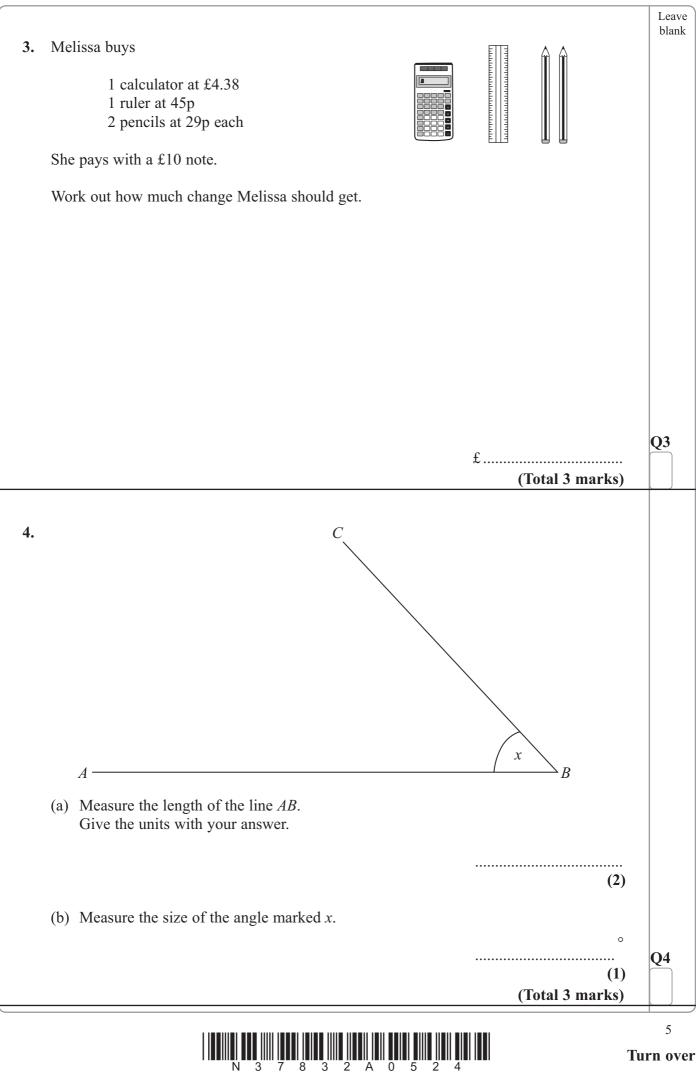
**Volume of prism** = area of cross section × length





8 3 2 A 0 3

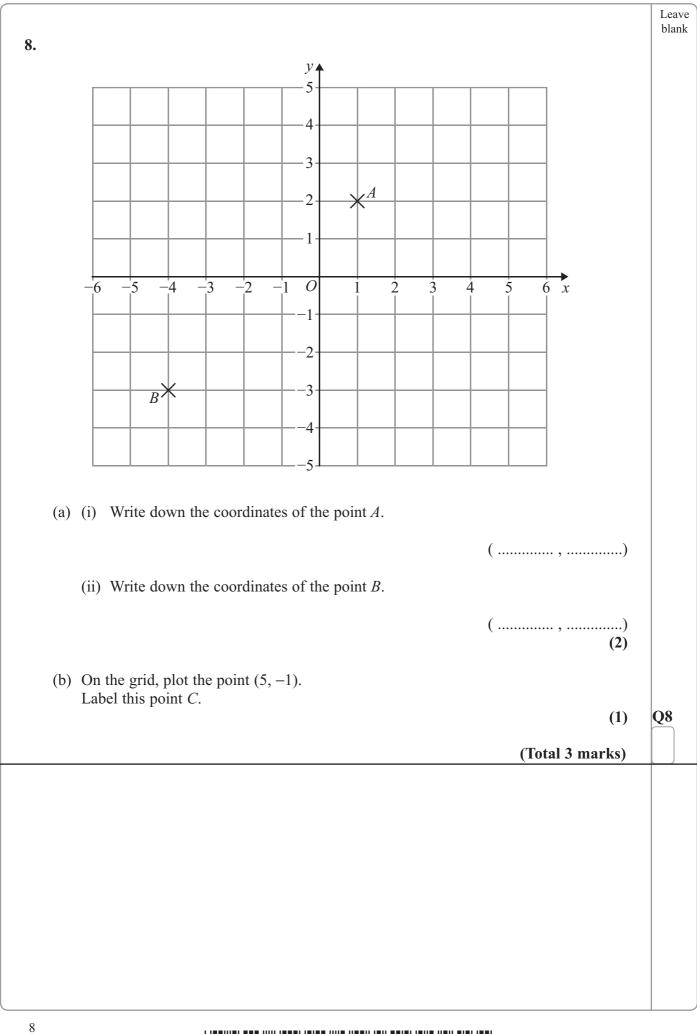
Red	$  \Leftrightarrow \Leftrightarrow$		
Blue	$\bigcirc \diamondsuit \diamondsuit \diamondsuit \bigtriangleup \bigtriangleup$		
Purple			
Yellow			
	•		
(a) Write down	h the number of students who said red.	(1)	
		(1)	
(b) Write down 12 students said		(1)	
(b) Write down 12 students said 5 students said t	 the number of students who said blue. 	(1)	
b) Write down 2 students said 5 students said t	 the number of students who said blue.  their favourite colour was purple. their favourite colour was yellow. formation to complete the pictogram.	(1)	

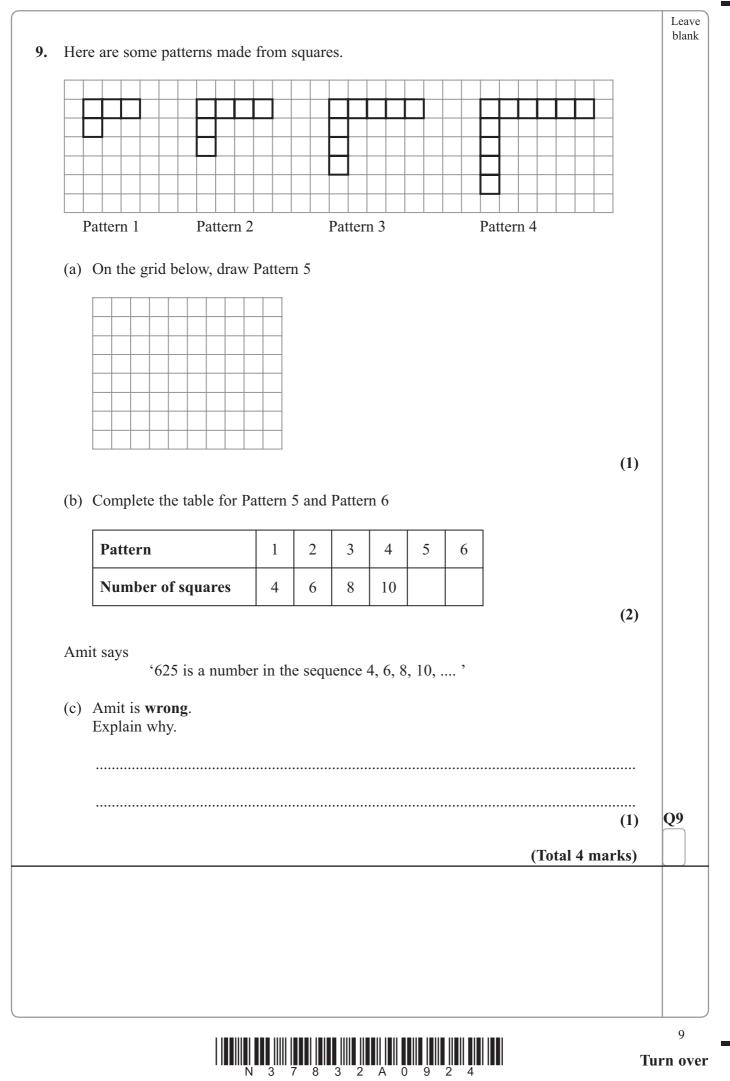


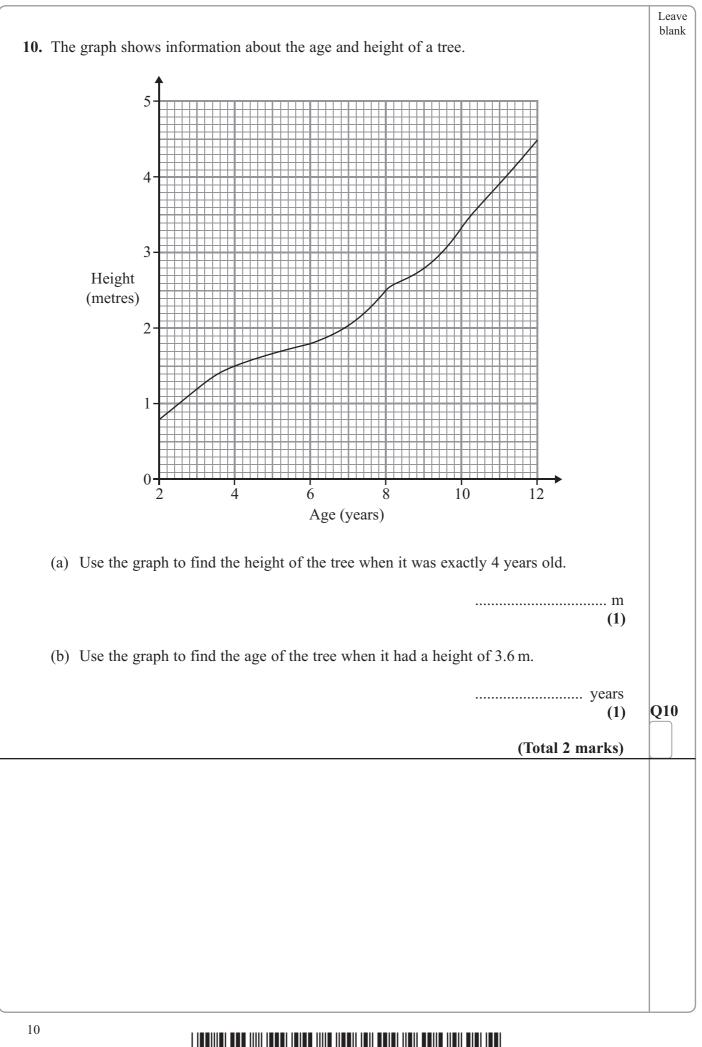
									1	
						C			_	
						C			_	
			A	B					-	
									-	
		D					G		-	
					F					
		E							_	
									-	
							•••••	•••••	cm <sup>2</sup> (1)	
(b) Find the	e perimeter	of rect	angle I	<b>B</b> .					cm	
(b) Find the	e perimeter	of rect	angle <b>I</b>	3.					cm (1)	
<ul><li>(b) Find the</li><li>Two of the r</li></ul>										
	rectangles a	re con	gruent.		gles.					
Two of the 1	rectangles a	re con	gruent.		gles.					
Two of the 1	rectangles a own the lett	re con	gruent. these t	wo rectan	gles.				(1)	
<b>Two</b> of the to (c) Write defined	rectangles a own the lett is an enlarg	re con	gruent. these t <sup>*</sup> t of rec	wo rectanţ tangle <b>B</b> .					(1)	
Two of the r (c) Write de Rectangle F	rectangles a own the lett is an enlarg	re con	gruent. these t <sup>*</sup> t of rec	wo rectanţ tangle <b>B</b> .				and	(1)	



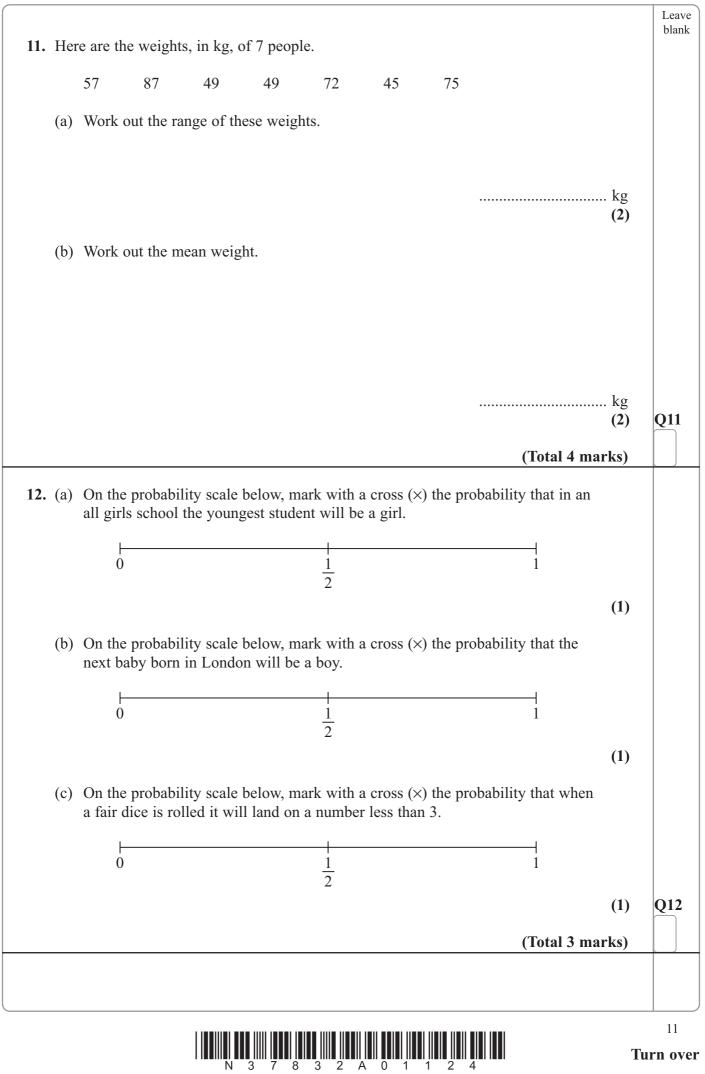
6.	There are 11 children in a room.		Leave blank
	6 of the children are girls.		
	(a) What fraction of the children are girls?		
		(1)	
	2 of the boys are sitting down.		
	(b) What fraction of the boys are sitting down?		
		(1)	Q6
	(Total 2 m	arks)	
7.	(a) Simplify $k+k+k+k+k$		
		(1)	
	(b) Simplify $2m + 3m - m$		
		(1)	
	(c) Solve $6x = 30$		
	$x = \dots$	(1)	
	(d) Solve $17 - y = 14$		
	<i>y</i> =		
		(1)	Q7
	(Total 4 m	arks)	
		Т	7 <b>.rn ove</b>



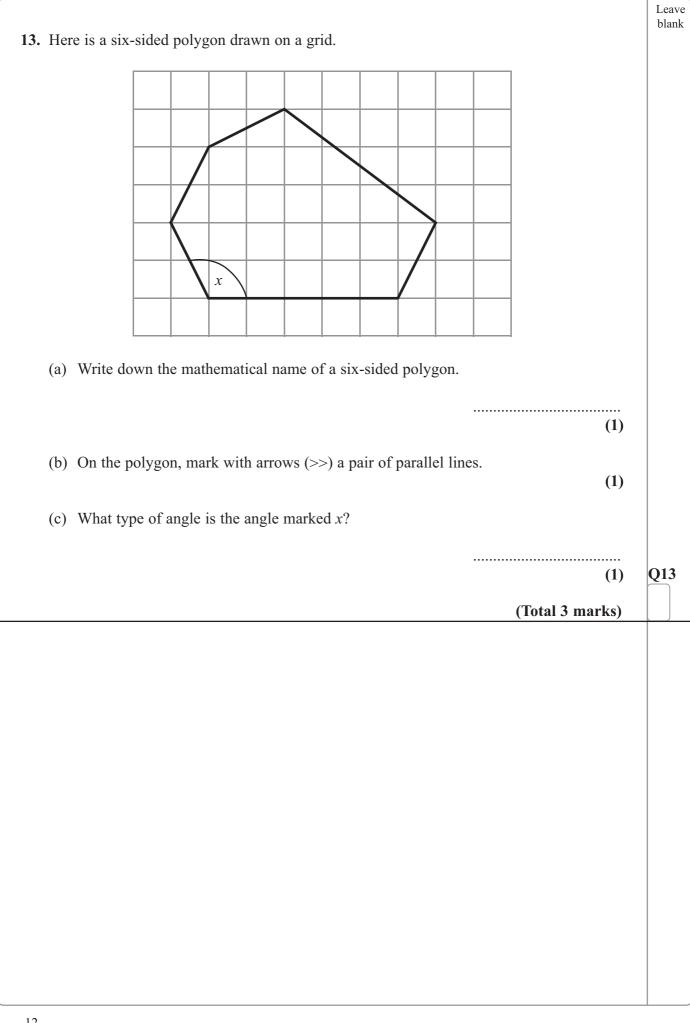




N 3 7 8 3 2 A 0 1 0 2 4



**Turn over** 



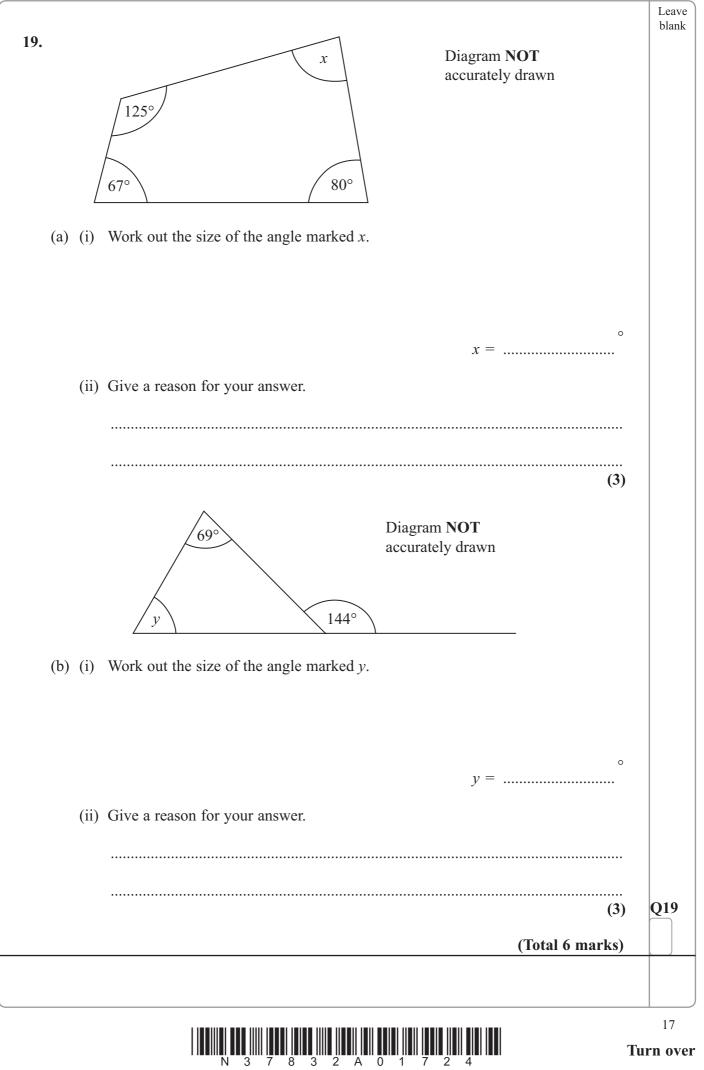
Leave blank 14. Two shops, Food Mart and Jim's Store, both sell Kreemy Yoghurts. **Food Mart Jim's Store** Kreemy Yoghurts Kreemy Yoghurts 3 for £1.05 5 for £1.80 At which shop are Kreemy Yoghurts the better value for money? You must show all your working. ..... Q14 (Total 3 marks)



are all the ta	actors of 16	ñ			bl	lank
	4	8	16			
Write down t	he factor o	f 16 that is	a prime number.			
				(1)		
Write down a	Ill the facto	ors of 14				
				(2)	01	5
Start with the 0.306 Write these fi	e smallest n 0.63 ractions in	umber. 0.3 	0.068	(1)		
$\frac{3}{4}$ $\frac{7}{12}$	$\frac{5}{6}$	$\frac{3}{8}$				
					Q1	.6
					_	J
	Write down t Write down a Write these n Start with the 0.306 Write these fi	Write down the factor o Write down all the factor Write these numbers in Start with the smallest n 0.306 0.63 Write these fractions in Start with the smallest f	Write down the factor of 16 that is Write down all the factors of 14 Write these numbers in order of siz Start with the smallest number. 0.306 0.63 0.3	Write down the factor of 16 that is a prime number.         Write down all the factors of 14         Write these numbers in order of size.         Write these numbers in order of size.         Write these numbers in order of size.         Write these fractions in order of size.	Write down the factor of 16 that is a prime number.	Write down the factor of 16 that is a prime number. (1) Write down all the factors of 14 (2) (2) (1) Write these numbers in order of size. Write these numbers in order of size. Mart with the smallest number. (1) Write these fractions in order of size. Mart with the smallest fraction. $\frac{3}{4}$ $\frac{7}{12}$ $\frac{5}{6}$ $\frac{3}{8}$ (2) (3) (4) (5) (5) (5) (6) (7) (7) (7) (7) (8) (9) (9) (9) (9) (9) (9) (9) (9

<ul><li>17. A family of 2 adults and 3 children went on holiday to Miami. They travelled from London by plane.</li></ul>		Leave blank
Adult plane tickets cost £459 each. Child plane tickets cost £289 each.		
(a) Work out the <b>total</b> cost of the plane tickets for the 2 adults and 3 children.		
£	(2)	
The family visited a theme park. They paid a total of 322 dollars to go in.		
The exchange rate was $\pounds 1 = 1.84$ dollars.		
(b) Change 322 dollars to pounds (£).		
£	(2)	
The distance from London to Miami is 7120 km. The plane journey took 8 hours.	(-)	
(c) Calculate the average speed of the plane.		
······		Q17
(Total 6 I	(2)	<u>×</u> •'
		15
N 3 7 8 3 2 A 0 1 5 2 4	Tur	n over

This rule is used to v	1	·			
Number of points	=	Number of games won × 3	+	Number of games drawn	
Rovers have won 8 g	games ai	nd drawn 2 games.			
a) How many poin	ts have	Rovers got?			
	<b>2</b> · · ·				(2)
Grangers have got 4 They have drawn 6					
b) How many gam	es have	Grangers won?			
					(2)
				(Total 4 m	narks)



ine two-way	table shows som					
	Football	Tennis	Rugby	Netball	Total	
Men			10	8	54	
Women	20	9				
Total	44		16		100	
	iy women played ay people did <b>no</b>				(1)	
					(1) Fotal 5 marks)	Q
		ut			(1)	Q
	ulator to work o $\frac{+5.86}{\times 3.17}$	ut			(1)	
$\frac{13.7}{2.54}$ Write down al	+ 5.86	your calculate	or display.		(1)	

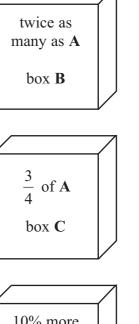
22.		Leave blank
Diagram NOT accurately drawn ABC is a right-angled triangle. AB = 5 cm, AC = 9 cm. Work out the length of <i>BC</i> . Give your answer to 2 decimal places.		
·······	cm	Q22
<b>23.</b> Noah got 8 out of 20 in a test.	(Total 3 marks)	
Write 8 out of 20 as a percentage.		
	%	Q23
	(Total 2 marks)	
$\left \begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $		19 <b>Furn ove</b>

24. There are	e 20 beads in box A.	
	20 000000 111 0011 111	

In box **B** there are twice as many beads as in box **A**.

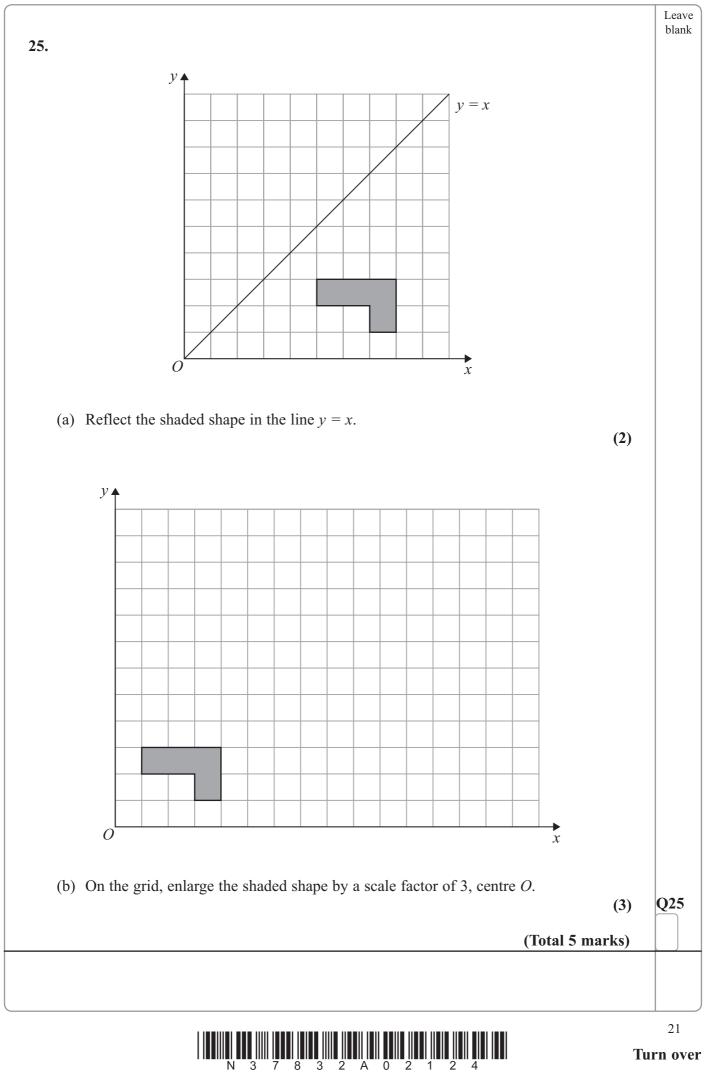
In box C there are  $\frac{3}{4}$  of the number of beads as in box A.

In box **D** there are 10% more beads than in box **A**. 10% more than A box **D** Work out the total number of beads in the four boxes. ..... beads (Total 4 marks) 20 N 3 7 8 3 2 A 0 2 0 2 4



20 beads box A

Leave blank



Turn over

26. 200 students in Year 11 took a mathematics test. Kamini wants to find out whether students in Year 11 li	ike mathematics.
For her sample she asks the 20 students who got the high	ghest marks in the test.
This is <b>not</b> a good sample to use.	
(a) Write down <b>one</b> reason why.	
	(1)
	(1)
She uses this question on her questionnaire.	
What do you think of mathematics?	
Excellent Very good Good	
(b) Write down <b>one</b> thing that is wrong with this quest	tion.
	(1)
Kamini also wants to find out how many hours students mathematics homework.	s spend on their
(c) Design a suitable question that Kamini could use o You must include some response boxes.	on her questionnaire.
	(2)

N 3 7 8 3 2 A 0 2 2 2 4

