

Oxford Cambridge and RSA Examinations

General Certificate of Secondary Education

Mathematics C (Graduated Assessment) 1966/2341B (F) FOUNDATION TIER TERMINAL PAPER – SECTION B

Specimen Paper 2003

Additional materials:

Tracing paper Geometrical instruments Scientific calculator Pie chart scale

TII	ME	: 1	hoi	ır
111			1101	JI.

Candidate Name	Centre Number	Candidate Number

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and candidate number in the boxes above.
- Answer all the questions.
- Write your answers, in blue or black ink, in the spaces provided on the question paper.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- There is a space after most questions. Use it to do your working. In many questions marks will be given for correct working even if the answer is incorrect.

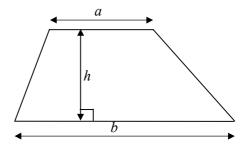
INFORMATION FOR CANDIDATES

- You are expected to use a calculator in Section B of this paper.
- The number of marks is given in brackets [] at the end of each question or part question.
- The total mark available for this Section is 50.

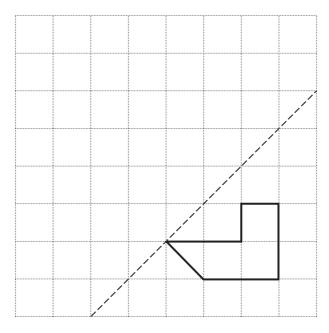
For Exam	iners' Use
Section B	

FORMULAE SHEET: FOUNDATION TIER

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

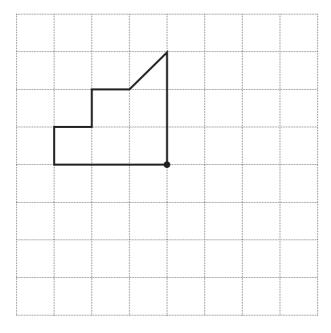


13 (a) Reflect this shape in the given line.



[2]

(b) Complete this pattern so it has a rotational symmetry of order 4.



[3]



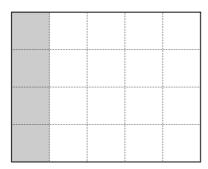
)	Charles has this n								
		5,		13,	<u></u>	_			
	Fill in the next nu								
	Explain how you	worked ou	t your ans	wer.					
)	Mary has this num	nber patter	n.						
	1,	2,	4,	8,		_			
	Explain how to w	ork out the	next num	nber in Mar	y's patte	ern.			
	1				<i>J</i> 1				
								2	
	eem drives a taxi.	work out h	is charge						
	eem drives a taxi. ses this formula to	work out h	is charge						
		work out h		in pounds.					
		work out h			per of m	iles by 2			
		work out h		in pounds.	per of m	iles by 2			
e u			Divid	in pounds. le the num And the	per of m	iles by 2			
e u	ses this formula to		Divid	in pounds. le the num And the	per of m	iles by 2			
e u	ses this formula to		Divid	in pounds. le the num And the	per of m	iles by 2			
e u	ses this formula to		Divid	in pounds. le the num And the	per of m	iles by 2			
e u	ses this formula to		Divid	in pounds. le the num And the	per of m	iles by 2		2	
e u	ses this formula to		Divid	in pounds. le the num And the	per of m	iles by 2		2	

14

15

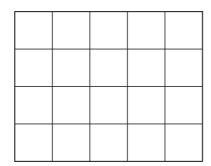
16 (a) What fraction of this shape is shaded?

Give your answer in its lowest terms.



(a) ______ [2]

(b) Shade $\frac{3}{4}$ of this shape.



(b) [1]



Raymond went to the supermarket and bought these items.

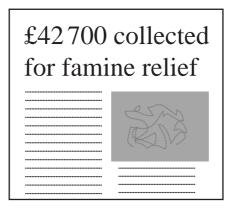
3 jars of jam at £1·19 a jar 2·5 kg of turkey at £4·36 a kg 1 litre of milk at 49p.

He paid with a £20 note.

How much change did he get?







- (a) Write £42 700 to the nearest thousand pounds.
- (a) £ _____ [1]

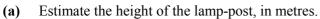
(b) Local schools raised 32% of the money.

Work out 32% of £42 700.





19 Dave is selling flowers.





(a) _____ m [2]

(b) What metric units would you use for

(i) the height of a flower bucket,

(b)(i) ______ [1]

(ii) the weight of one flower?

(ii) ______ [1]

(c) Dave has 3 litres of water in his watering can. He has four flower buckets.

He pours 50 millilitres of water into each bucket.

How many millilitres of water are left in the watering can?

(c) _____ ml [2]



Sue throws a fair six-sided dice with faces marked 1, 2, 3, 4, 5 and 6.

(a) Mark on the scale below the probability that she throws a 6.

[1]

(b) Mark on the scale below the probability that she throws a 7.

[1]

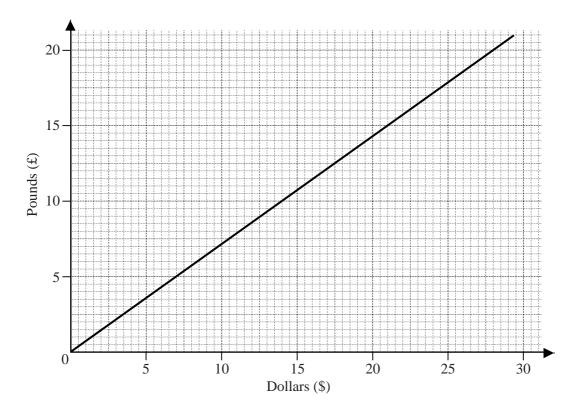
(c) The probability that she throws an odd number is marked on the scale below with a cross.

[1]

Explain why the cross is marked on the middle of the line.

[1]

21 This conversion graph is for dollars (\$) to pounds (£).



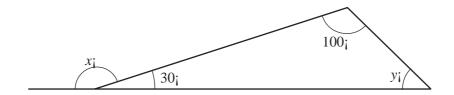
Use the graph to

(a) change £5 into dollars (\$),

(a) \$ _____ [1]

(b) change \$17 into pounds (£).

(b) £ _____ [1]



(a) Work out the size of angle x.

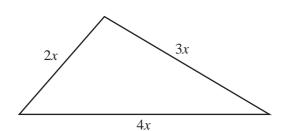
	o	-1 1
(a) $x =$		[1]

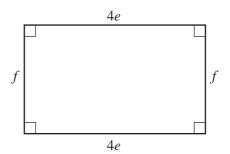
(b) Find the size of angle *y*. Explain how you worked out your answer.

y =	° because	
		[2]



23 Look at these shapes.





Write as simply as possible an expression for

(a) the perimeter of the triangle,

(a) ______ [1]

(b) the perimeter of the rectangle,

(b) _____ [2]

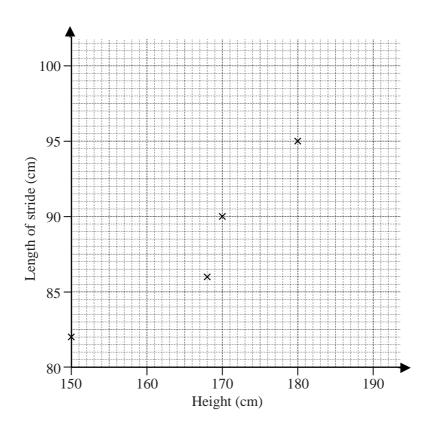
(c) the area of the rectangle.

(c) _____ [1]



Jackie recorded the heights and the lengths of the strides of 10 boys in her form. These are the results.

Height (cm)	170	180	168	150	164	172	167	176	182	190
Length of stride (cm)	90	95	86	82	87	89	93	92	94	96

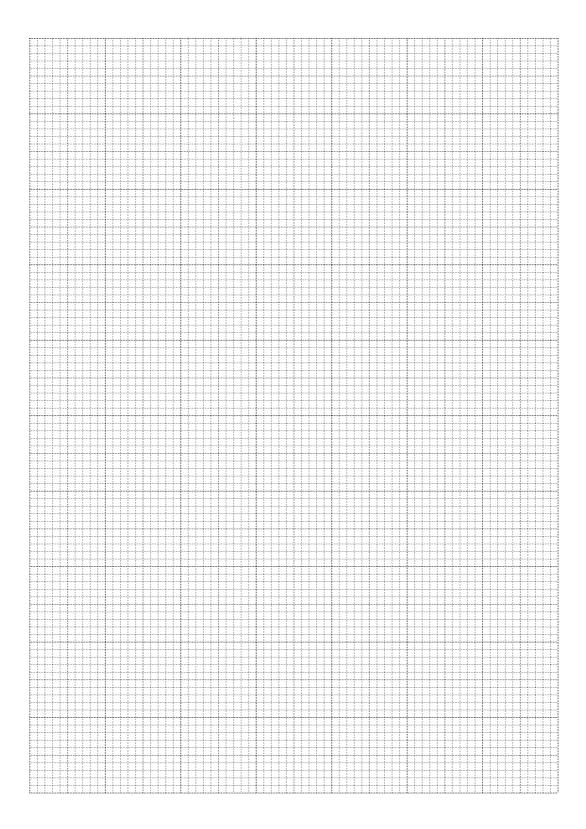


- (a) Complete this scatter diagram to show these results. The first four points have been plotted.
- **(b)** Comment on the relationship between the height and the length of stride of the ten boys.

[2]

[1]

25



	h year Brentwood School hold a sponsored swim. money raised is shared between two charities, A and I	B, in the ratio 5 : 1.	
(a)	In 1999 a total of £1800 was raised.		
	How much was given to charity A?		
		(a) £	[2]
(b)	In 2000 Charity A was given £1850.		
	How much was given to Charity B?		
		(b) £	[2]
		.,	4
A ci	rcular picture frame has a piece of glass in front with	radius 11 cm.	
	k out the area of the glass. e your answer to a suitable degree of accuracy.		
			cm ² [3]
			3

26

27