

OXFORD CAMBRIDGE AND RSA EXAMINATIONS General Certificate of Secondary Education					
MATHEMAT (Graduated	ICS C Assessment)	19	966/2341E	3	
FOUNDATIO	N TERMINAL PAPER – S	ECTION B			
Tuesday	7 JUNE 2005	Afternoor	n 1 ho	ur	
Candidates answe Additional materia Geometrical ir Pie chart scale Tracing paper Scientific calc	struments e (optional) (optional)			Candidate	
(Candidate Name		Centre Number	Number	

TIME 1 hour

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, on the dotted lines unless the question says otherwise.
- 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 a correct method 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 number of marks for this Section is 50.
- Section B starts with question 9.
- Use the π button on your calculator or take π to be 3.142 unless the question says otherwise.

FOR EXAMINER'S USE

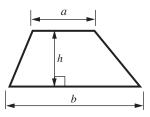
Section B

This question paper consists of 11 printed pages and 1 blank page.

2

Formula Sheet: Foundation Tier

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



(a)	Her	e is a numl	per patter	n.							
		51	47	43	39	35	~~~~				
	(i)	Fill in the	e next nur	nber in th	is pattern						[1]
	(ii)	Explain h	ow you v	vorked it	out.						
			•••••			•••••			•••••		[1]
(b)	Her	e is a diffe	rent num	oer patter	n.						
		51	41	43	33	35	25	27			
	Exp	olain how to	o work ou	it the nex	t two num	bers in th	nis pattern	1.			
		•••••									
			•••••			•••••			•••••		[2]
(c)	Her	e is anothe	r number	pattern.							
	pio	cture 1	pi	cture 2		picture 3	9		picture 4		
		1		2		3			4		
	11	\// ≤	2	\// 	2		\// 	2		\// 	
		//\`	- //\	~~``		/1/ /1/	//\`	- //\	/1/ /1/	//\`	
		12		18		24			30		
	li	nes	li	nes		lines			lines		

This formula is used to find the number of lines for a picture.

multiply the picture number by 6 then add 6

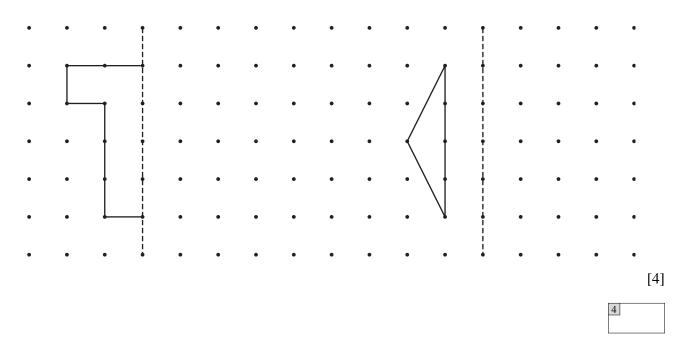
Use the formula to find the number of lines for picture 10.

(c)[2]

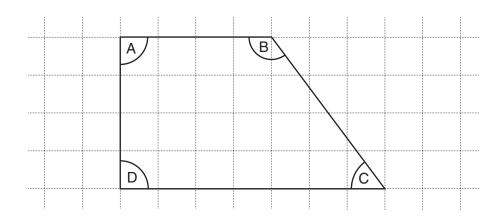
6

4

10 Complete each shape so that the dashed line is a line of reflection symmetry.



11



(a) Complete.

Angle is acute.

Angle is a right angle.

Angle is obtuse.

[2]

(b) By measuring, find the perimeter of this shape.

(b)cm [2]

12 Abu kept a record of the weather each day for 4 weeks. This pictogram shows some of his results.

Cloudy		Key	
Foggy	(*)	٢	stands for 2 days
Rainy	Image: Contract of the contra		
Sunny			

(a) Six days were Cloudy.

Show this on the pictogram.

- (b) Which type of weather was most common?
- (c) How many days were Foggy?

(**c**)[1]

3

(b)[1]

[1]

13	Tanya bre	eaks t	he records	5!]
	Monday Jul	y 21st 2	2003, breaki	ng the male	and female v	vorld record	depth of 121 s. Her heart i nched up pla	ate slowed	
(a)	Complete.								
	218 sec	ondsi	is the sam	e as	minu	tes and	S	econds.	[2]
(b)	About how m Ring the close	•		etres?					
	۷	10	300	350	400	480	500		[1]
(c)		~					\sim	$\sim \sim \sim$	

The next day Tanya set another world record for a single breath dive, this time without fins. She descended to a depth of 115 feet, resurfacing after 1 minute 44 seconds.

How much deeper is 121 metres than 115 feet? Show all your working. Give the units of your answer.

(c)[3]

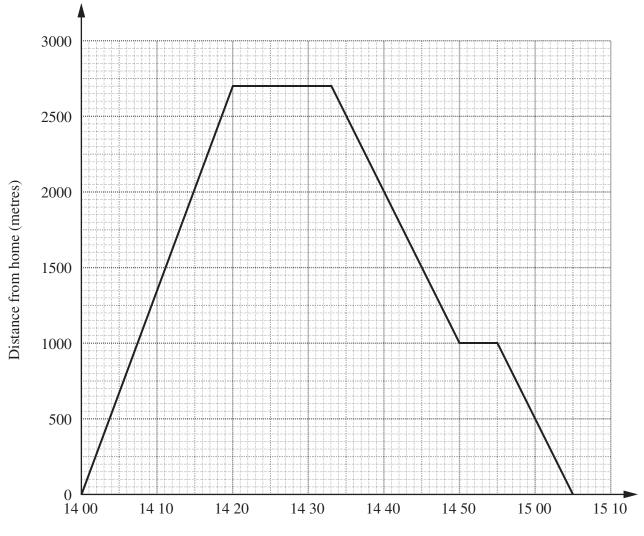
(d) This table shows the previous records.

Free-dive World Records			
FemaleDeborah Andollo311.7 feet			
MalePatrick Musimu393.7 fee		393.7 feet	

How much deeper was the male record than the female?

(**d**)feet [2]

14 Lesley walks from home to the Library. On the way back home she stops at the Post Office. This graph shows her journey.



Time

Complete these sentences.

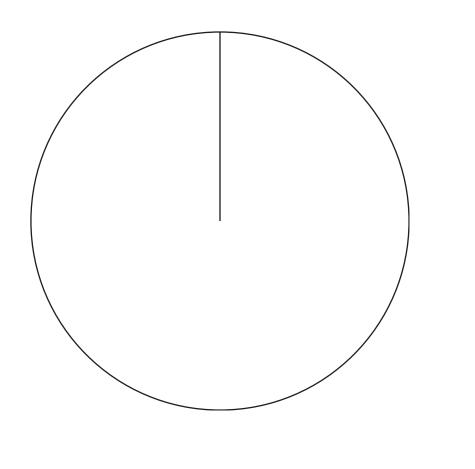
(a)	It took minutes to get to the Library.	[1]
(b)	The Library is metres from home.	[1]
(c)	She spent minutes in the Library.	[1]
(d)	The Post Office is metres from the Library.	[1]
		4

15 In an election, 180 people voted.

The table shows the number who voted for each party.

Party	Number of votes
Labour	36
Conservative	72
Lib. Dem.	45
Independent	27

Draw and label a pie chart to illustrate the data.



[4]



16 (a) Asim buys this television in Birmingham.

VA T is charged at 17.5%.

Calculate how much Asim pays altogether for the television.

An image has been removed due to third party copyright £950 plus VAT restrictions Details: An image of a television set

(a) £.....[3]

 (b) Asim goes on holiday to Paris. He sees the same television on sale for€1600 including VAT. He knows £1 is worth €1.45.

Work out where the television is cheaper, and by how much. Give your answer in pounds. Show your working clearly.

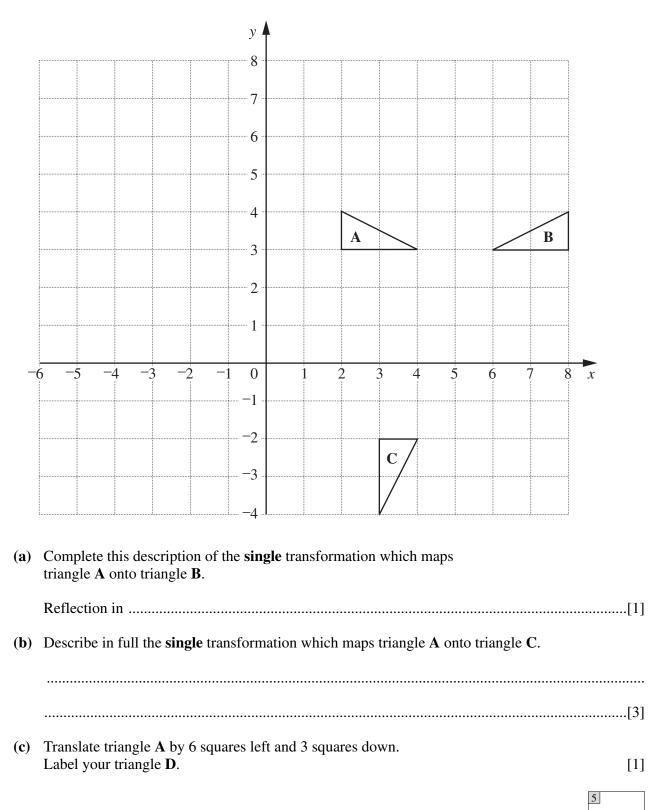
(b) It is cheaper in [3]

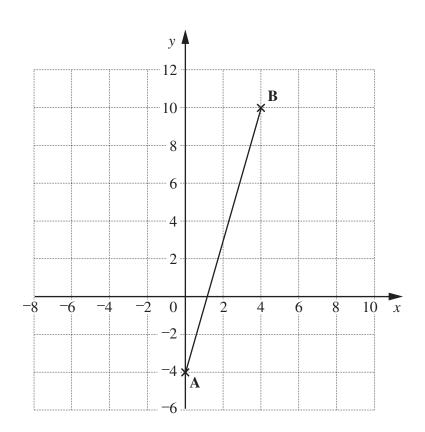
17 Calculate.

Give your answer correct to one decimal place.

.....[2]

2





A is the point (0, -4) and B is the point (4, 10).

(a) Write down the coordinates of the midpoint of AB.

(a) (.....) [2]

(b) ABC is an isosceles triangle. C is a point on this grid.

Write down the coordinates for two **different** possible positions of C.

(b) (.....) [1]

(.....) [1]

4

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