MATHEMATICS C (Graduated Assessment)

1966/2341B

FOUNDATION TERMINAL PAPER - SECTION B

Tuesday

7 JUNE 2005

Afternoon

1 hour

Candidates answer on the question paper.
Additional materials:
Geometrical instruments
Pie chart scale (optional)

Pie chart scale (optional)
Tracing paper (optional)
Scientific calculator

Candidate Name	Centre Number	
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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 other
- Read each question carefully and make sure you know what you have to do before star answer.
- There is a space after most questions. Use it to do your working. In many questions marl 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 otherw

FOR EXAMINER

Section B

- (ii) Explain how you worked it out.

 (b) Here is a different number pattern.

 51 41 43 33 35 25 27

 Explain how to work out the next two numbers in this pattern.
 - (c) Here is another number pattern.

picture	picture	picture	picture
1	2	3	4
>''' =	≥''\ '\\	> // // // {	\$ \\\ \\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\
12 lines	18 lines	24 lines	30 lines

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

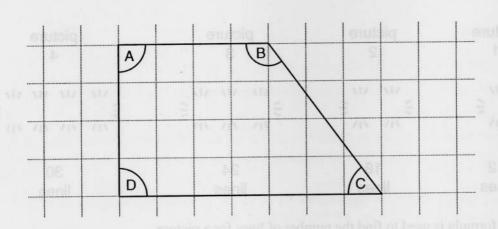
multiply the picture number by 6 then add 6

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

(c)



11



(a) Complete.

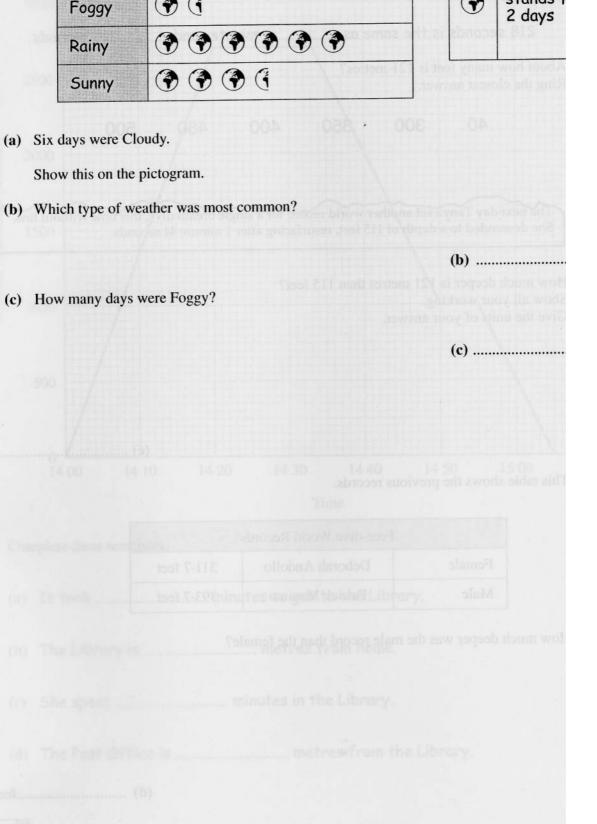
Angle is acute.

Angle is a right angle.

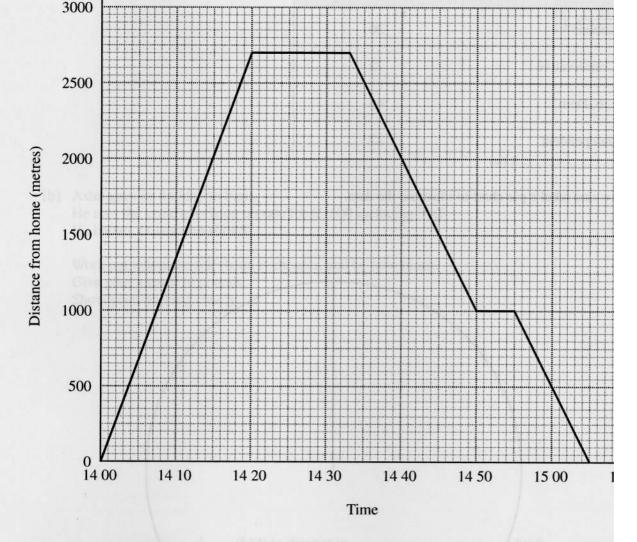
Angle is obtuse.

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

(b)



Ring the closest answer. 40 300 350 400 480 500 The next day Tanya set another world record for a single breath dive, this time with 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)		218 seconds	is the same	e as	minu	tes and	seconds
The next day Tanya set another world record for a single breath dive, this time with 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)	(b)			tres?			
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Show all your working. Give the units of your answer. (c)		The next day Tan She descended to	ya set another a depth of 11	world reco	rd for a sing facing after 1	le breath div minute 44 s	e, this time without feconds.
(d) This table shows the previous records. Free-dive World Records Female Deborah Andollo 311·7 feet Male Patrick Musimu 393·7 feet How much deeper was the male record than the female?		Show all your work	king.	than 115 fe	eet?		
Free-dive World Records Female Deborah Andollo 311·7 feet Male Patrick Musimu 393·7 feet How much deeper was the male record than the female?							
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Female Deborah Andollo 311·7 feet Male Patrick Musimu 393·7 feet How much deeper was the male record than the female?		Complete.	Fre	e-dive Worl	ld Records		
How much deeper was the male record than the female?		Female	e	Deborah A	ndollo	311.7 feet	
b) By measuring, and the perimeter of this shape.		Male	15 B I Pgf	Patrick M	usimu	393.7 fee	
		How much deeper	was the male	record that	n the female	?	
(b)							
(a)							(b)
							(d)

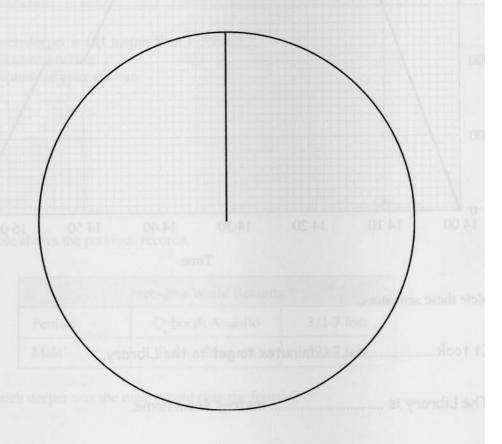


Complete these sentences.

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

Labour	36
Conservative	72
Lib. Dem.	45
Independent	27

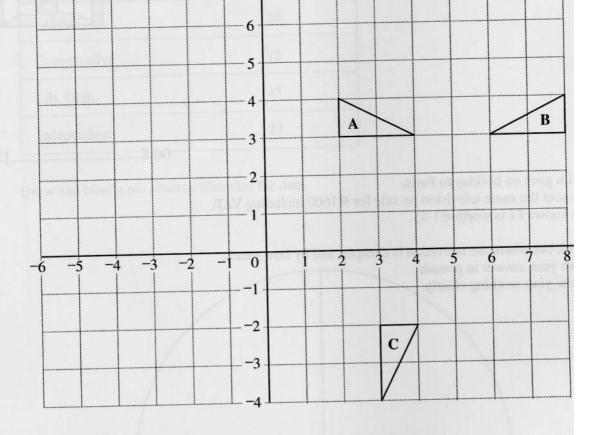
Draw and label a pie chart to illustrate the data.



			(a) L
(b)	Asim goes on holiday to Pa He sees the same television He knows £1 is worth €1.4	on sale for €1600 including VAL	
	Work out where the televis Give your answer in pound Show your working clearly	ion is cheaper, and by how much.	
	Show your working clearly		
		(b) It is cheaper in	by £
		(b) it is cheaper in	
Ca	lculate.		
	$\frac{124.5 + 92.62}{26.5 - 15.85}$		

Give your answer correct to one decimal place.

17



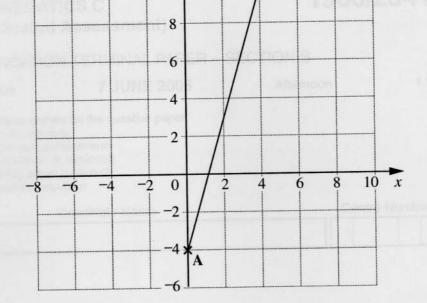
(a)	Complete this description of the single transformation which maps	
	triangle A onto triangle B.	

Reflection in	
Reflection in	

(b) Describe in full the single transformation which maps triangle A onto triangle C.

8	

(c) Translate triangle A by 6 squares left and 3 squares down. Label your triangle D.



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

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

1	,	
(a)	(,

(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)	(,
	(