### MATHEMATICS C (Graduated Assessment)

Candidates answer on the question paper.



### FOUNDATION TERMINAL PAPER - SECTION B

Monday

**5 JUNE 2006** 

Afternoon

1 hour

A	Iditional materials: Geometrical instruments Pie chart scale (optional) Tracing paper (optional) Scientific calculator	
Candidate Name		

Centre Number

Candidate Number

- 8	

TIME 1 hour

#### INSTRUCTIONS TO CANDIDATES

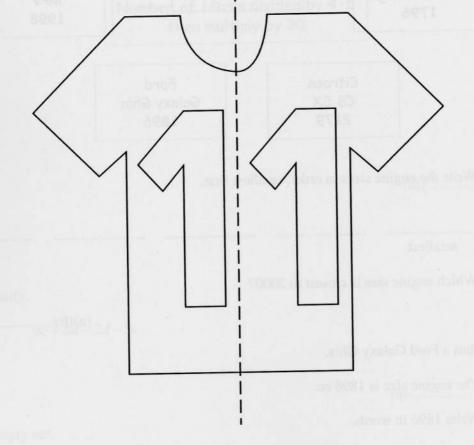
- Write your name, Centre number and candidate number in the boxes above.
- Answer all the questions.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure you know what you have to do before starting yo
- In many questions marks will be given for a correct method even if the answer is incorrect.
- Do not write in the bar code.
- Do not write outside the box bordering each page.
- WRITE YOUR ANSWER TO EACH QUESTION IN THE SPACE PROVIDED. ANSWERS ELSEWHERE WILL NOT BE MARKED.

### 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 11.
- Use the  $\pi$  button on your calculator or take  $\pi$  to be 3-142 unless the question says otherwise.

FOR EXAMIN

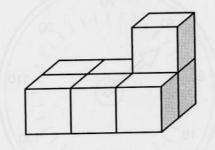
Section B



(b) Ron has made this solid shape with seven cubes.

He needs to add **one** extra cube so that his solid has **one** plane of symmetry.

Put a X to show where the extra cube should be placed.



Citroen C8 SX 2179 Ford Galaxy Ghia 1896

(i) Write the engine sizes in order, smallest first.

smallest

(ii) Which engine size is closest to 2000?

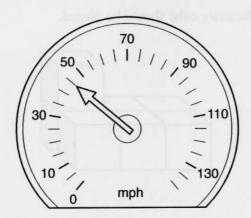
(a)(ii) .....

(b) Sally has a Ford Galaxy Ghia.

(i) The engine size is 1896 cc.

Write 1896 in words.

(ii) Here is her speedometer.



What speed does the speedometer show?

(b)(ii) .....

Number of	Litres divided by 4.5
then	multiply by 30

(iii) .....

13 (a) Simplify.

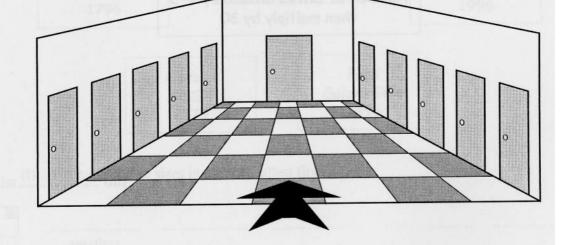
9c + 8d - 2d - 5c

(a) .....

(b) Multiply out.

4(2e + 5)

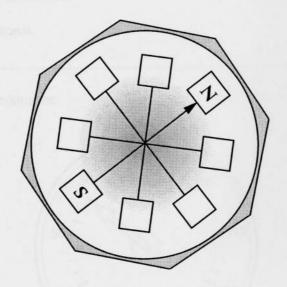
(b) .....



Lee must choose the correct door.

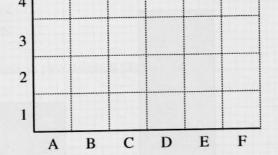
Put a X on the third door on the right.

## (b) 2 Walk through the SE door



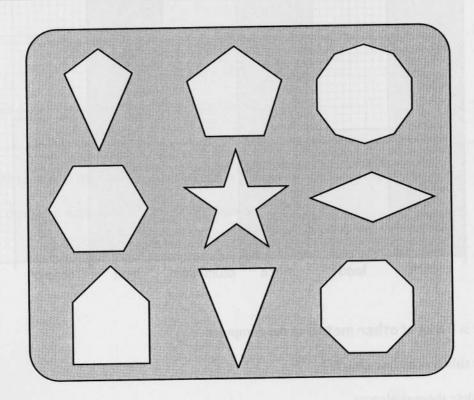
The compass has N and S marked.

Write SE in the correct place on the compass.

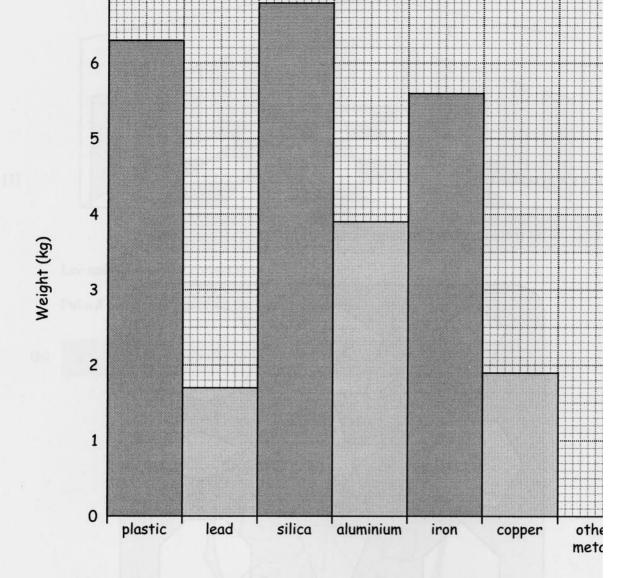


Put a X in square D2.

# (d) 4 The treasure is behind the hexagon



Put a X in the hexagon.



(a) There is 0.8 kg of other metals in the computer.

Show this on the bar chart.

(b) Complete these sentences.

The weight of iron is ......kg.

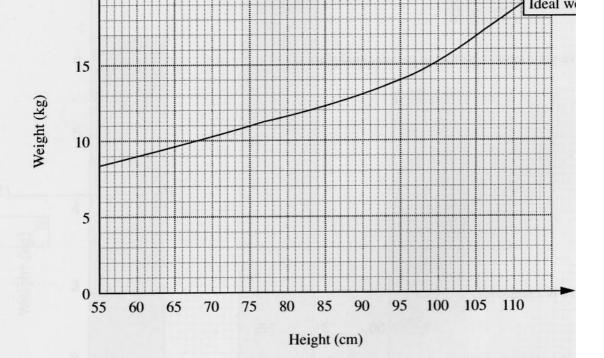
The weight of ..... is 1.7 kg.

There is more ...... than plastic.

$\frac{12.74 - 4.35}{1.58 + 7.16}$
Give your answer correct to two decimal places.
(b)
Here is a sequence.
41, 36, 31, 26,
Explain how to work out the next number in this sequence.
Author a margin to 73 cm.
The <i>n</i> th term of a different sequence is $2n + 5$ .
Write down the first three terms of this sequence.

(b) ....., , ......,

17



(a) Katie's height is 75 cm.

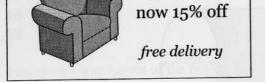
Write down the ideal weight for Katie.

(a) .....

- (b) Jed's height is 68 cm and his weight is 12 kg.Put a X on the graph to show this information.
- (c) Vicky's weight is 15 kg.
  Her weight is 1 kg below her ideal weight.

What is Vicky's height?

(c) .....



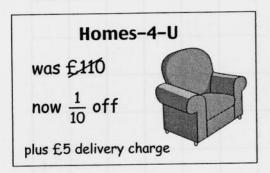
Before the sale, the price of a chair was £124.

The price is reduced by 15% in the sale.

Calculate the sale price.

1-1	C	
(a)	£	ġ
·/		

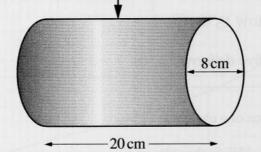
(b) Homes 4 U has the same chair in a sale.



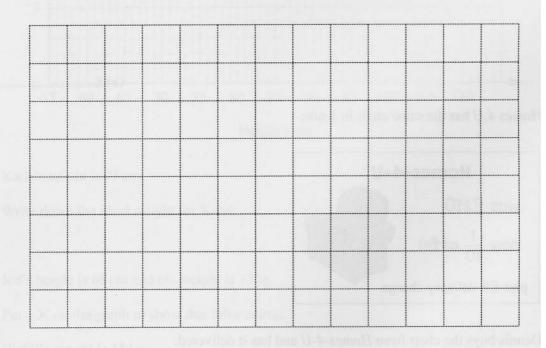
Dennis buys the chair from Homes-4-U and has it delivered.

How much cheaper for Dennis is the Homes-4-U deal than the Furniture Warehouse deal

<b>(b)</b>	£		í
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(a) Draw a plan view (from P) of this cylinder. Use a scale of 1 cm to 4 cm.



(b) (i	) Write dov	wn the radiu	s of the c	ircular end	of this	cylinder.

(b)(i) .....

(ii) Work out the area of the circular end of the cylinder.

(ii) .....

	18 19	2 2	2 2	2	3			Key:	16	4	means 16
(a)	Find	the med	lian heigh	t of the	boys.						
										(a)	
			t alabta o	f tha air	rlo					***	
(b)	Here	are the	heights o			170	149	154	175	168	
			171	155	166	170			166		
			161	159	181	162	163	177			
	Cons	struct a	stem and	leaf dia	gram fo	or the h	eights	of the g	girls.		
		1									
(0	e) Wr	ite dow	n a comm	ent con	nparing	the hei	ghts of	the bo	ys with	the heigh	nts of the girls