MATHEMATICS C **1966/2341A**

(Graduated Assessment)

FOUNDATION TERMINAL PAPER – SECTION A

Tuesday **8 JUNE 2004** Afternoon 1 hour

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

Candidate Name	Centre Number	Ca N

TIME 1 hour

INSTRUCTIONS TO CANDIDATES

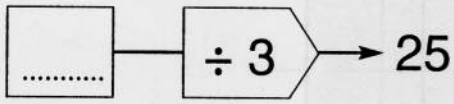
- Write your name, Centre number and candidate number in the boxes above.
- Answer **all** the questions.
- Write your answers, in blue or black ink, on the dotted lines unless the question says oth
- Read each question carefully and make sure you know what you have to do before sta answer.
- There is a space after most questions. Use it to do your working. In many questions mar given for a correct method even if the answer is incorrect.

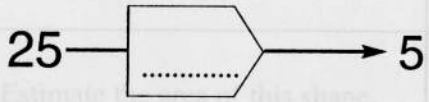
INFORMATION FOR CANDIDATES

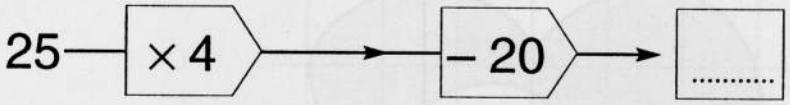
- The number of marks is given in brackets [ ] at the end of each question or part questior
- The total number of marks for this Section is 50.

WARNING
You are not allowed to use a calculator in Section A of this paper.

FOR EXAMINER	
Section A	
Section B	
Total	

(b) 

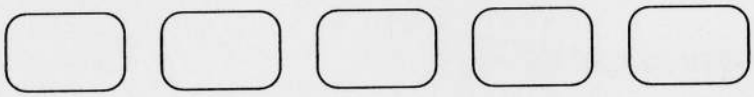
(c) 

(d) 

odd		
even		

3 Here are five number cards.

(a) Arrange these cards to make a number pattern.



(b) Explain how to find the next number in your number pattern.

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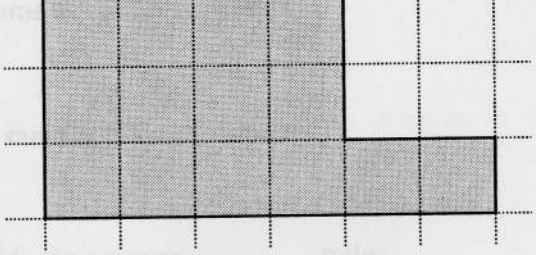
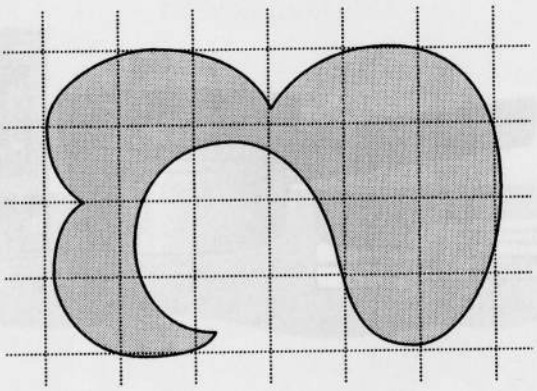


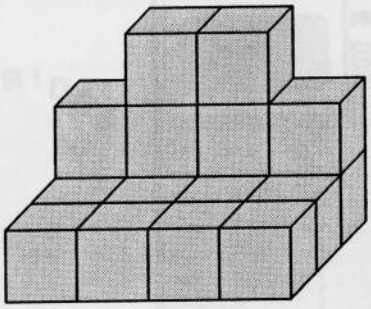
(a) .....

(b) Estimate the area of this shape.



(b) .....

(c) Sarah uses 20 cubes to make this solid shape.



Some of the 20 cubes can be seen in the picture.

How many of the cubes **cannot** be seen?

(c) .....

(a) .....

(b) $52 - 27$

(b) .....

(c) 52×4

(c) .....

(d) $52 \div 4$

(d) .....

(e) $\frac{1}{2}$ of 52

(e) .....

(f) $\frac{3}{4}$ of 52

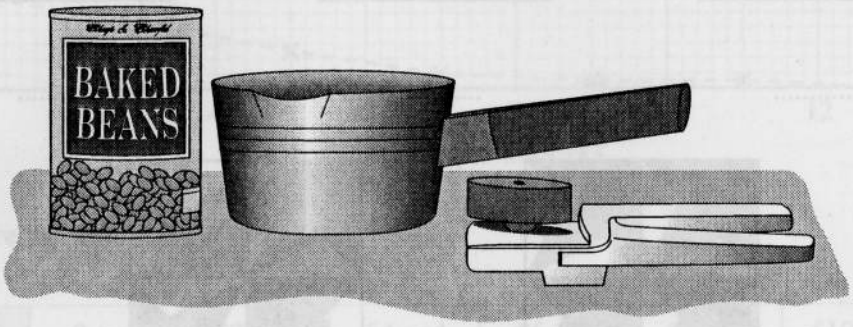
(f) .....

(b) 3·7 kilograms is the same as ..... grams

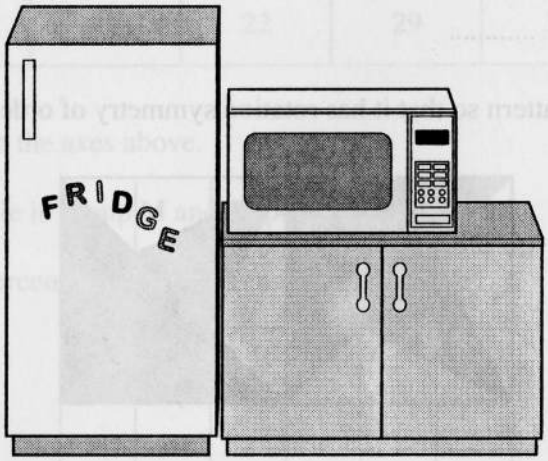
(c) 12 feet is roughly the same as ..... metres

(d) 16 kilometres is roughly the same as ..... miles

7 Complete.



(a) The can of beans weighs 400 .....



(b) The fridge is 150 cm high.

The microwave is about ..... cm high.

(a) Judith makes these patterns.

Under each pattern write down the number of lines of symmetry it has.
If the pattern does not have reflection symmetry, write 0.

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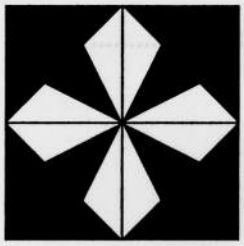

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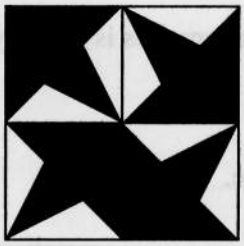

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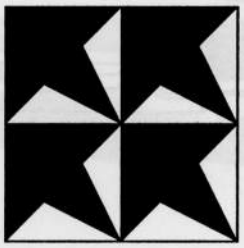

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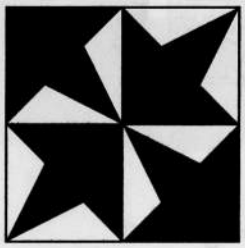

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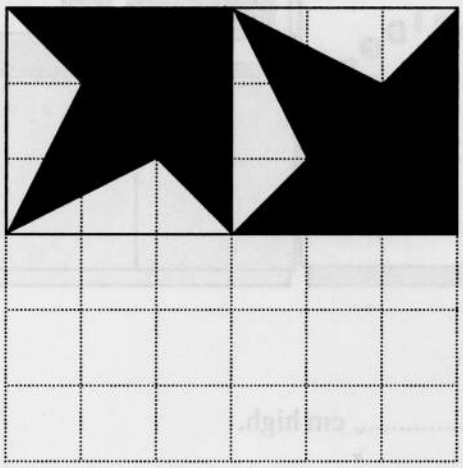
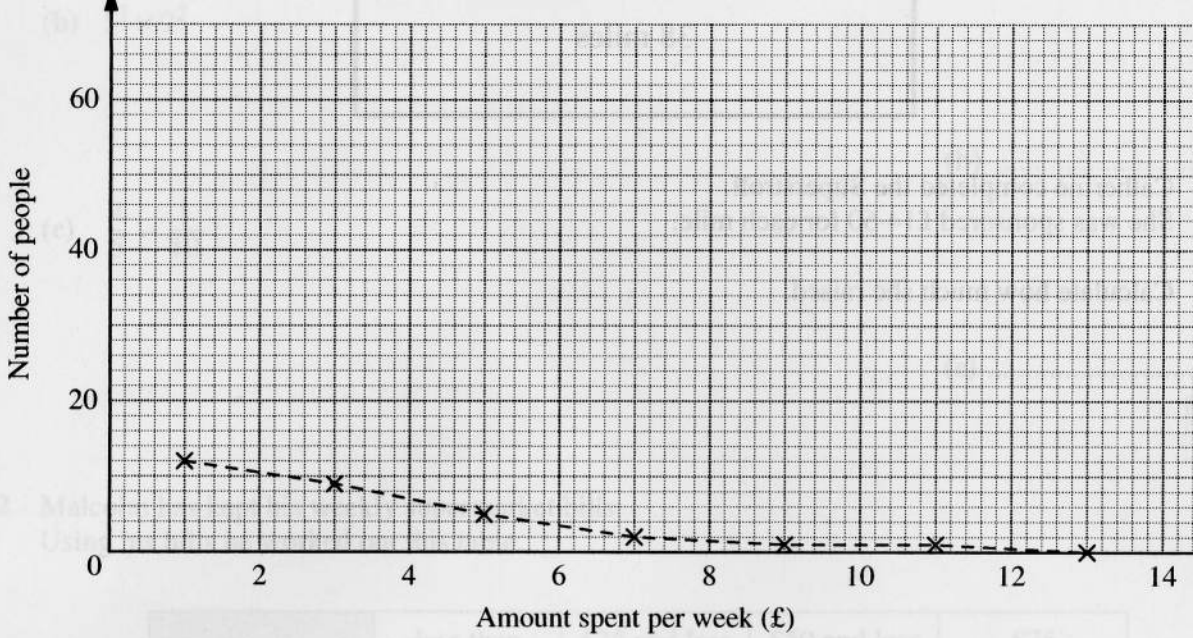
(b) Complete this tiling pattern so that it has rotation symmetry of order 4.





(a) Here are the results for Group M.

Amount spent per week	0 and less than £2	£2 and less than £4	£4 and less than £6	£6 and less than £8	£8 and less than £10	£10 and less than £12	£12 less £
Number of people	8	11	22	29	36	47	

Plot these results on the axes above.

(b) There are 170 people in group M and 30 people in Group V.

Work out 30 as a percentage of the total number of people.

(b) .....

(c) Make a comment comparing the results for Group M and Group V.

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38 miles

(a) Catherine completed the Superstroll.
She was sponsored £14·60 for each mile.

Calculate how much she raised.

(a) £.....

(b) She completed the first 14 miles at an average speed of 4 miles per hour.

How long did she take for the first 14 miles?
Give your answer in hours and minutes.

(b) ..... hours ..... minu

6

(b) $5^3 \times 2^2$

(b) .....

(c) $\frac{4}{5} - \frac{1}{10}$

(c) .....

12 Malcolm has kept his weekly supermarket bills.
Using his bills he worked out this table.

Amount Spent	less than £25	£25 and less than £50	£50 and less than £75	£75 or over
Probability	0·2	0·4	0·1	

(a) He keeps his supermarket bills in a jar.
He picks one of them at random.

What is the probability that it will be for £75 or over?

(a) .....

(b) Malcolm has kept 20 bills.

How many times did he spend less than £25?

(b) .....