FOR OFFICIAL USE

F

KU	RE

Total Marks

2500/401

NATIONAL QUALIFICATIONS 2008

THURSDAY, 8 MAY
9.00 AM – 9.20 AM

MATHEMATICS
STANDARD GRADE
Foundation Level
Paper 1
Non-calculator

Fill in these boxes and read what is printed below.

Full name of centre

Town

Forename(s)

Surname

Date of birth
Day Month Year

Scottish candidate number

Number of seat

1 **You may NOT use a calculator.**

2 Answer as many questions as you can.

3 Write your working and answers in the spaces provided. Additional space is provided at the end of this question-answer book for use if required. If you use this space, write clearly the number of the question involved.

4 Full credit will be given only where the solution contains appropriate working.

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LI 2500/401 6/43470

SQA ©

		Marks	KU	RE
1.	Work out the answers to the following.			
	(*a*) 683 – 142			
	WORKING			
	ANSWER	**1**		
	(*b*) $\frac{1}{6}$ of 84			
	WORKING			
	ANSWER	**2**		
	(*c*) 25% of £76			
	WORKING			
	ANSWER £	**2**		

	Marks	KU	RE

2. The table below shows the days worked by the cleaners in a school.

	Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Claire	✓	✓	✓		✓
Brian	✓	✓		✓	✓
Morgan		✓	✓	✓	✓

(*a*) Which **two** people work on Thursday?

ANSWER	

1

(*b*) The supervisor decides that she needs **three** cleaners in the school each day, so she hires Fred.

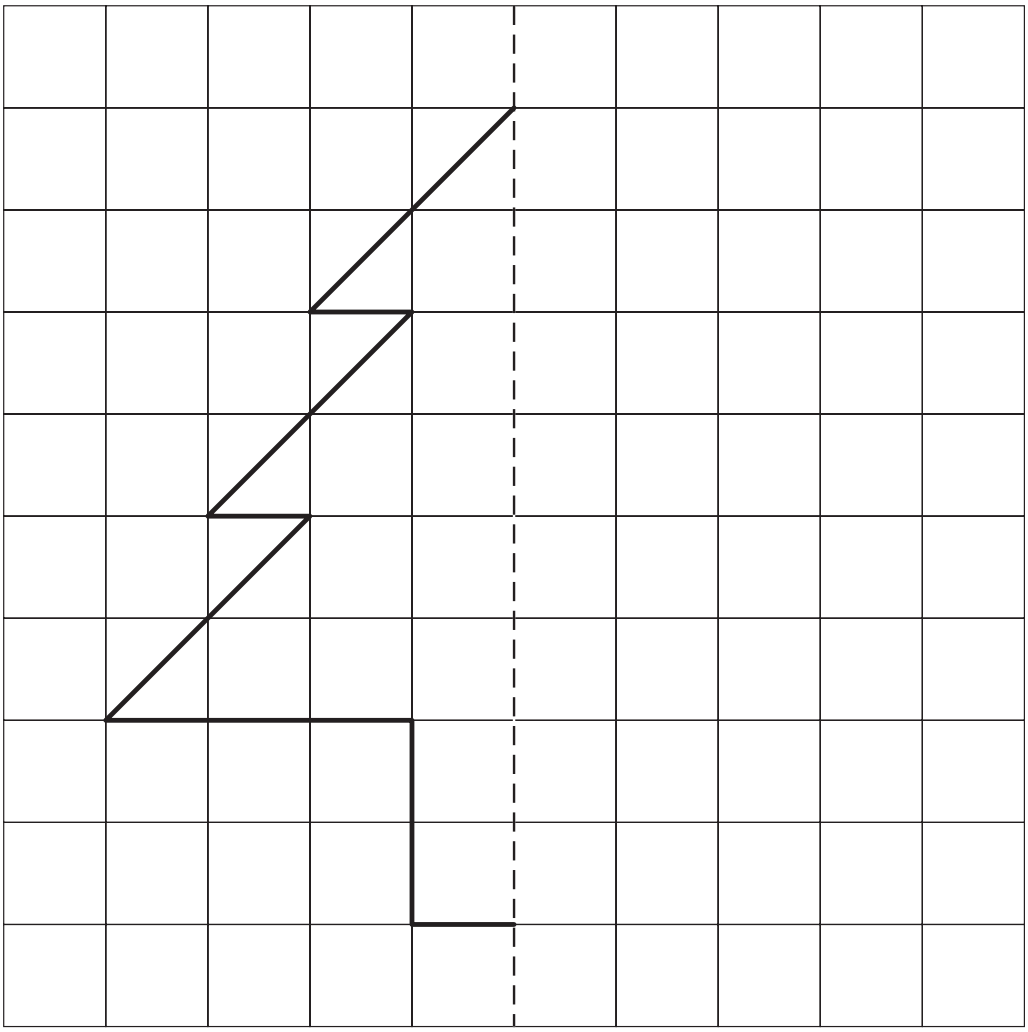
On which days will Fred work?

ANSWER	

2

		Marks	KU	RE
3.	A high speed train travels at a speed of 115 miles per hour. What distance will it travel in 4 hours? 			
	WORKING			
	ANSWER miles	**2**		

	Marks	KU	RE
4. The broken line is an axis of symmetry. Complete the diagram.	**4**		

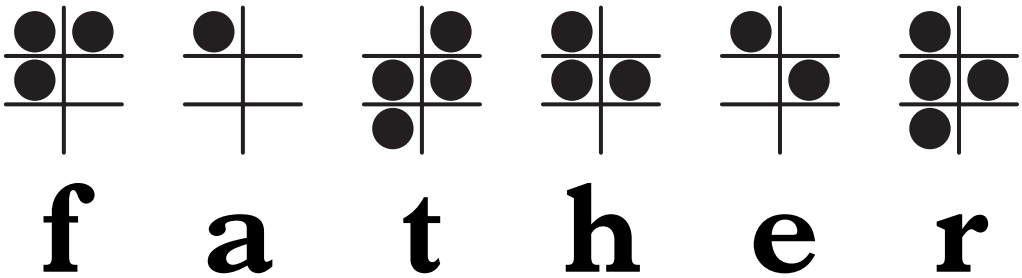


	Marks	KU	RE

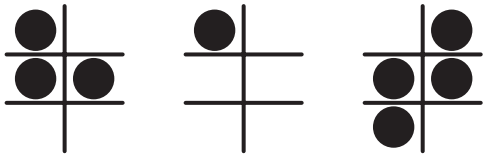
5. Blind people can read using Braille.

In Braille, letters are represented by patterns of raised dots.

The word **father** is shown below in Braille.



Another word is shown below in Braille.



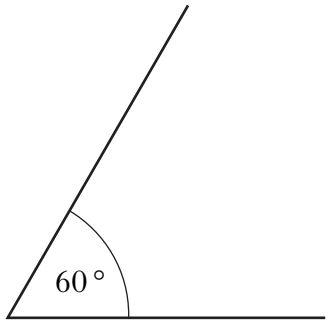
What is this word?

WORKING	
ANSWER	

3

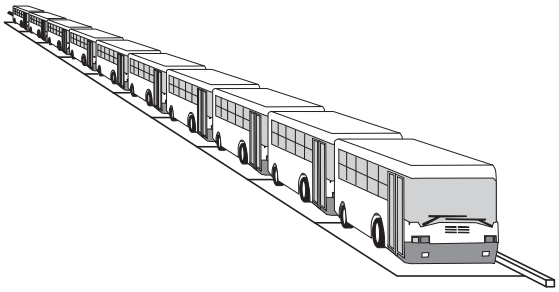
	Marks	KU	RE

6. The angle shown in the diagram below is 60°.



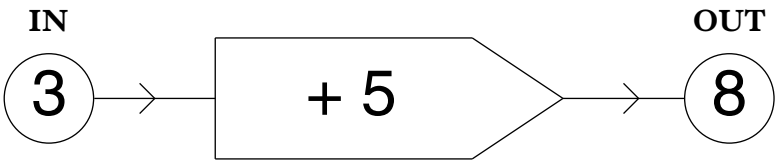
Use a protractor to draw an angle of 80° in the box below.

1

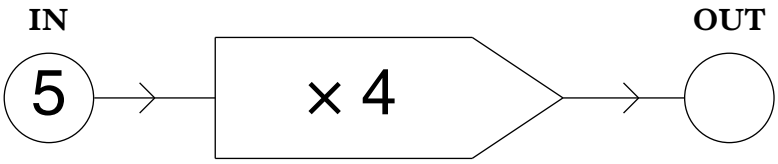
		Marks	KU	RE
7.	A street has a row of 10 parking spaces for coaches. Each parking space is 13·8 metres long. Find the total length of all 10 parking spaces. 			
	WORKING			
	ANSWER metres	**2**		

	Marks	KU	RE

8. This is a number machine. A number goes into the machine and the answer comes out.



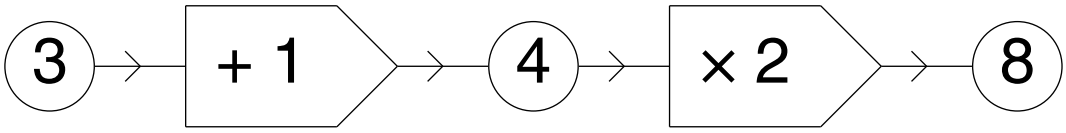
(*a*) Here is a different number machine. Complete this number machine.



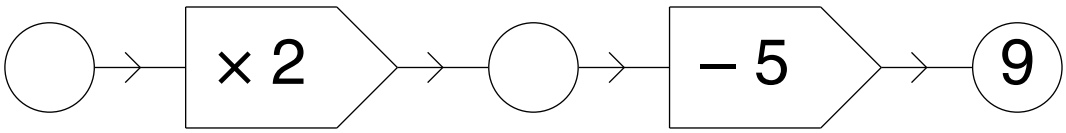
WORKING

1

(*b*) Number machines can be put together as shown below.



Complete the number machine below.



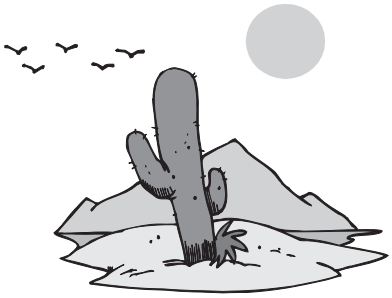
WORKING

2

	Marks	KU	RE

9. In Texas one summer, there was a heatwave.

The temperature stayed above 32° Celsius for 22 days in a row.



The **first** day of this heatwave was 15 July.

On which date did the heatwave end?

WORKING	
ANSWER	

2

[*END OF QUESTION PAPER*]

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FOR OFFICIAL USE

F

KU	RE

Total Marks

2500/402

NATIONAL QUALIFICATIONS 2008

THURSDAY, 8 MAY
9.40 AM – 10.20 AM

MATHEMATICS
STANDARD GRADE
Foundation Level
Paper 2

Fill in these boxes and read what is printed below.

Full name of centre

Town

Forename(s)

Surname

Date of birth
Day Month Year

Scottish candidate number

Number of seat

1 **You may use a calculator**.

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©

		Marks	KU	RE
1.	Peter pays 75p for 3 oranges in his local fruit shop. How much will Aisha pay for 5 oranges in the same shop?			
	WORKING			
	ANSWER £	**3**		

	Marks	KU	RE

2. The number of bananas sold each day in the school tuck shop was recorded over a three-week period.

The results are listed below.

7	8	9	6	9
4	5	9	7	6
8	7	6	7	7

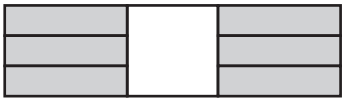
Complete the frequency table.

Number of Bananas	*Tally*	*Frequency*
4		
5		
6		
7		
8		
9		

3

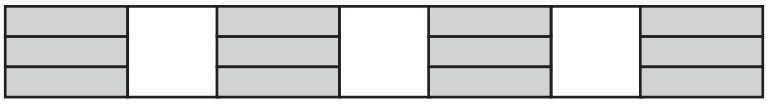
	Marks	KU	RE

3. A tiled border can be made using a combination of squares and rectangles as shown.



1 square
6 rectangles

2 squares
9 rectangles



(*a*) Complete this table.

Number of squares	1	2	3	4	5	6		10
Number of rectangles	6	9						

WORKING

4

(*b*) Write down a rule for finding the number of rectangles if you know the number of squares.

RULE

2

	Marks	KU	RE

4. Steven has saved up £26. He is also given £59 by relatives for his birthday.

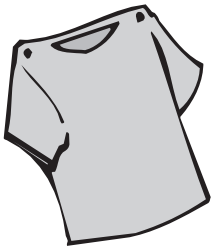
(*a*) How much money does Steven have altogether?

WORKING	
ANSWER	£

2

(*b*) Steven spends some of his money. He buys a computer game and a T-shirt.

£39.99



£10.99

Steven also wants to buy a ticket for a football match.

The ticket costs £30.

Can Steven afford to buy the ticket?

Give a reason for your answer.

WORKING	
ANSWER (WITH REASON)	

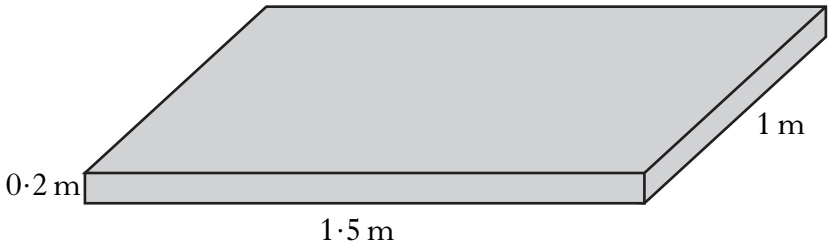
4

	Marks	KU	RE

5. A furniture company delivers its furniture in flat packs.

One flat pack is in the shape of a cuboid.

The cuboid is 1·5 metres long, 1 metre broad and 0·2 metres high.



Find the volume of this cuboid.

WORKING	
ANSWER	cubic metres

2

	Marks	KU	RE

6. Anna has £540.

She pays it into a **Golden Saver Account** and leaves it for 1 year.

GOLDEN SAVER ACCOUNT

Interest Rate: 3% per year

How much interest will Anna receive at the end of the year?

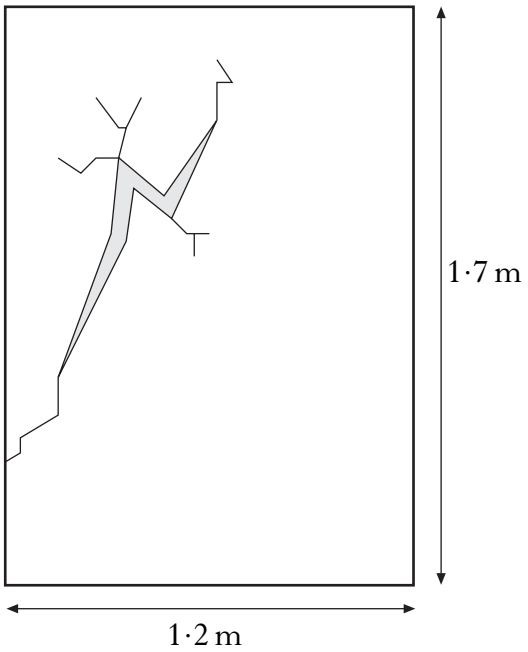
WORKING	
ANSWER	£

2

		Marks	KU	RE
7.	Mrs McLaughlin's class wants to raise £60 for charity. There are 30 pupils in the class and each pupil saves 5p per day. How many days will it take to raise £60? WORKING ANSWER ____ days	**4**		

	Marks	KU	RE

8. Bill's window is broken. He needs to replace the glass.



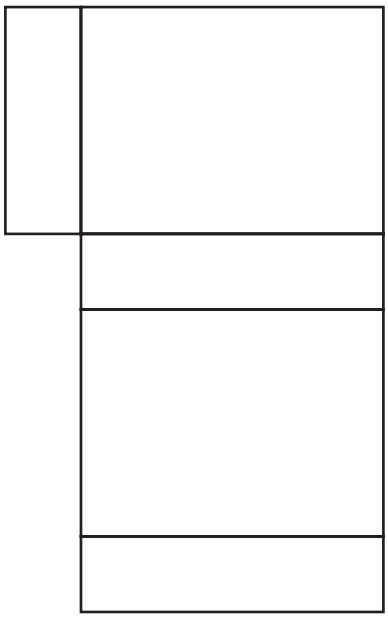
(*a*) What area of glass will Bill need to buy?

WORKING				
ANSWER	square metres	**2**		

(*b*) Glass costs £7·25 per square metre.
How much will Bill pay for the glass?

WORKING				
ANSWER	£	**2**		

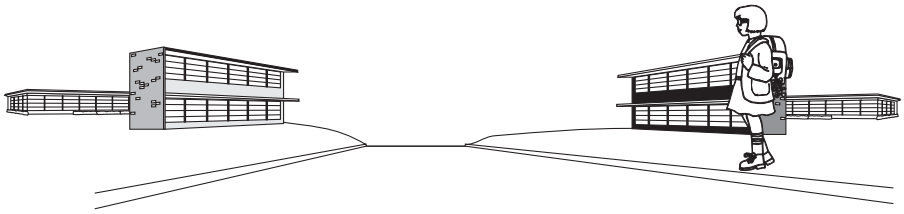
		Marks	KU	RE
9.	Part of the net of a cuboid is shown below.			



	Complete the net.	**1**		

	Marks	KU	RE

10. Amy and Paul go to neighbouring schools.



Amy's lunchtime is from	12 45 to 13 30
Paul's lunchtime is from	12 50 to 13 45

(*a*) Paul's lunchtime ends at 13 45.

Write this as a **12-hour time**.

ANSWER		1		

(*b*) How long does Amy's lunchtime last?

WORKING	
ANSWER	minutes

2

(*c*) Paul and Amy like to spend as much of their lunchtime together as possible.

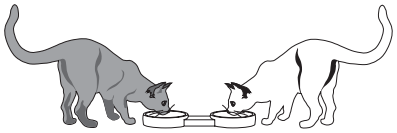
What is the maximum possible time that they can spend together at lunchtime?

WORKING	
ANSWER	minutes

3

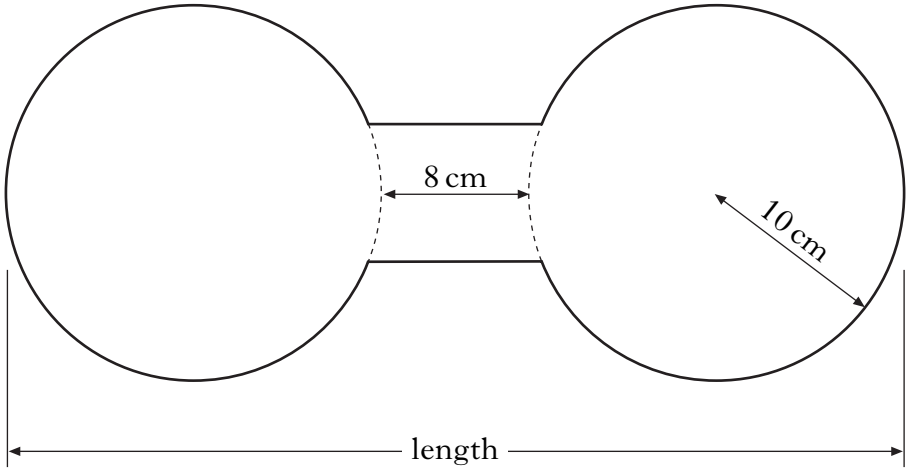
	Marks	KU	RE

11. Leo has bought a dish for his cats, Puss and Boots.



The dish has two circular bowls joined by a straight section.

A sketch of the top of the dish is shown below.



The radius of each circle is 10 centimetres.
The distance between the two circles is 8 centimetres.

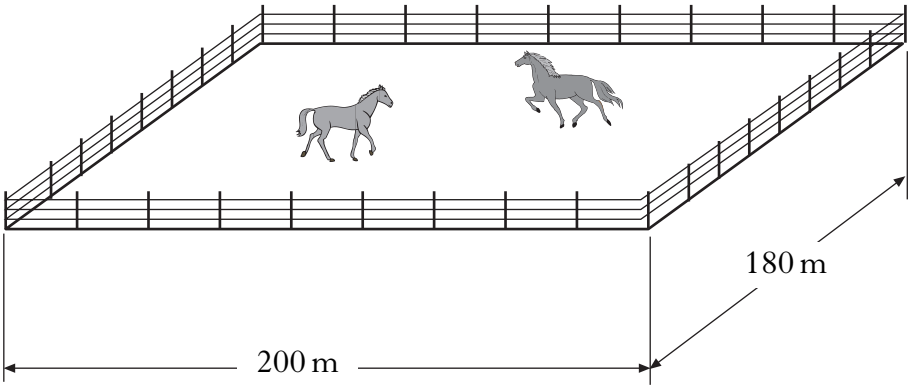
Calculate the length of the dish.

WORKING	
ANSWER	centimetres

3

	Marks	KU	RE

12. Lorraine is going to put a fence around a rectangular field on her farm.
The field is 200 metres long and 180 metres broad.



(*a*) Calculate the perimeter of the field.

WORKING	
ANSWER	metres

2

(*b*) Fencing is sold in 50 metre rolls.
How many rolls must Lorraine buy?

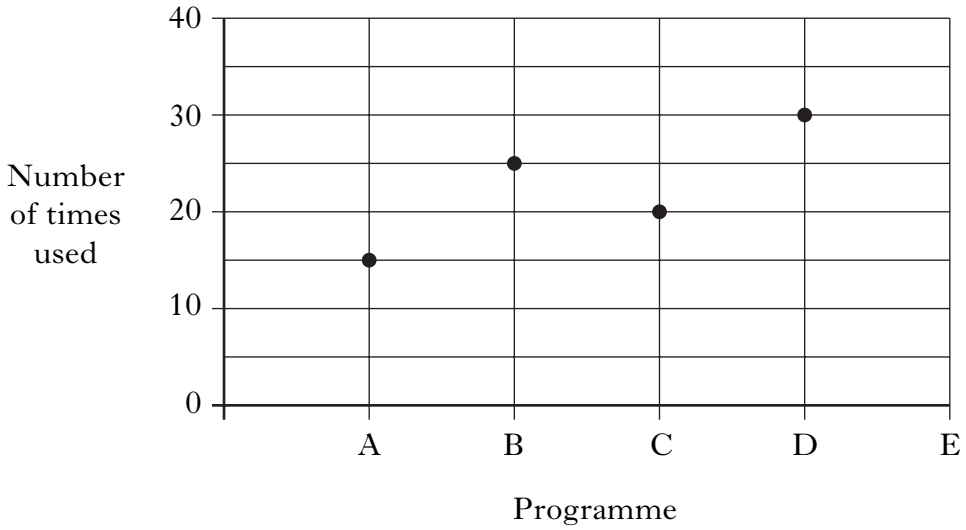
WORKING	
ANSWER	rolls

3

	Marks	KU	RE

13. The Soapy Bubble Car Wash Company has five programmes for washing cars. The programmes are A, B, C, D and E.

The graph below shows how often programmes A, B, C and D were used in a one week period.



(*a*) Write down the number of times programme D was used.

ANSWER	times	**1**		

(*b*) Programme E was used 25 times.

Mark a cross (✘) on the graph to show this. **1**

	Marks	KU	RE

13. (continued)

(*c*) The cost of each programme is shown below.

SOAPY BUBBLE CAR WASH COMPANY	
Programme	**Cost**
A	£1
B	£2
C	£3
D	£4
E	£5

How much money did the Car Wash Company take in during the week?

WORKING	
ANSWER	£

4

[Turn over for Question 14 on *Page sixteen*

	Marks	KU	RE

14. Compared to some meats, turkey has a low fat content.

A nutrition label on a turkey on sale in a supermarket states:

Contents per **100** grams	
PROTEIN	19·9 grams
FAT	8·8 grams
SALT	0·1 grams

How many grams of fat are there in a 6 kilogram turkey?

WORKING	
ANSWER	grams

4

[*END OF QUESTION PAPER*]