

FOR OFFICIAL USE

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F

KU RE

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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

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Scottish candidate number

--	--	--	--	--	--	--	--	--	--

Number of seat

- You may NOT use a calculator.**
- Answer as many questions as you can.
- 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.
- Full credit will be given only where the solution contains appropriate working.
- Before leaving the examination room you must give this book to the invigilator. If you do not, you may lose all the marks for this paper.



Marks

KU	RE
1	
2	
2	

1. Work out the answers to the following.

(a) $683 - 142$

WORKING	
ANSWER	

(b) $\frac{1}{6}$ of 84

WORKING	
ANSWER	

(c) 25% of £76

WORKING	
ANSWER	£

Marks

	KU	RE
1		
2		

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

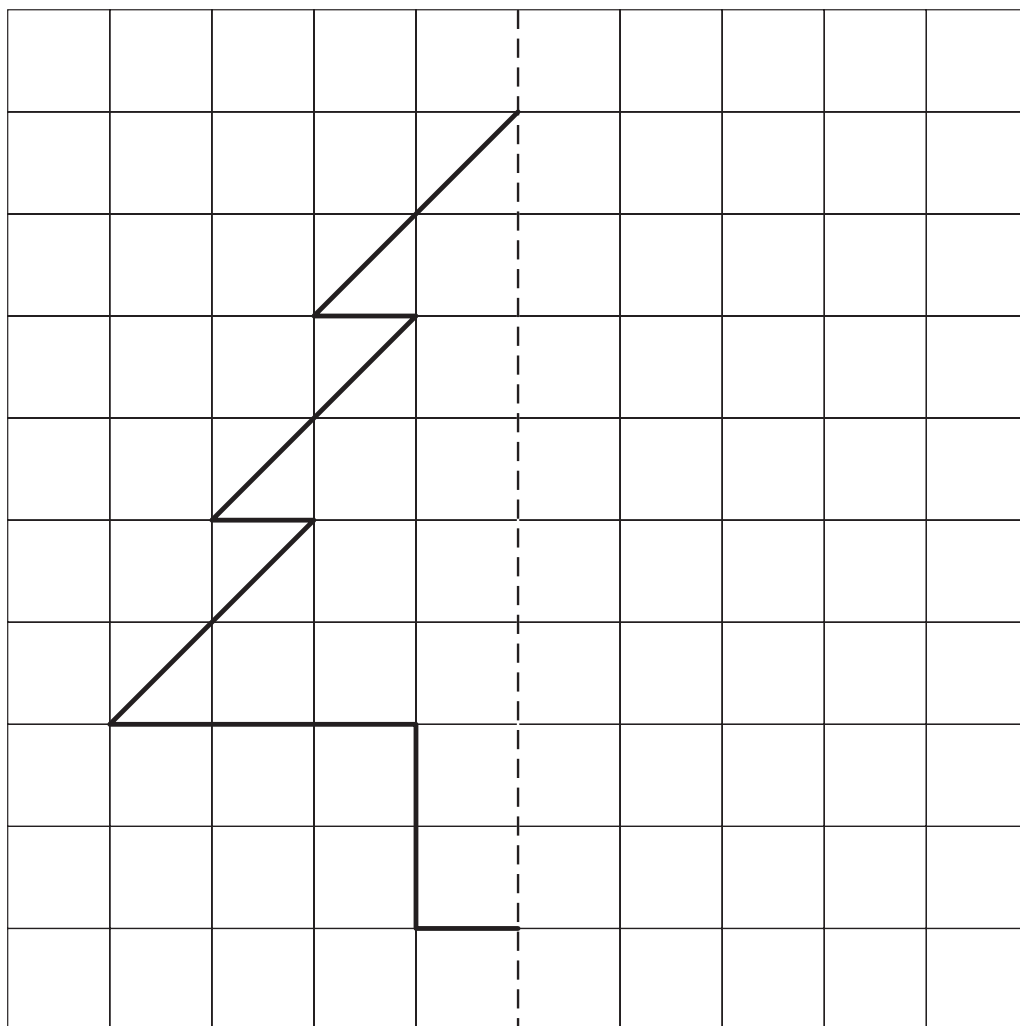
On which days will Fred work?

ANSWER	
--------	--

Marks

KU RE

4. The broken line is an axis of symmetry.
Complete the diagram.



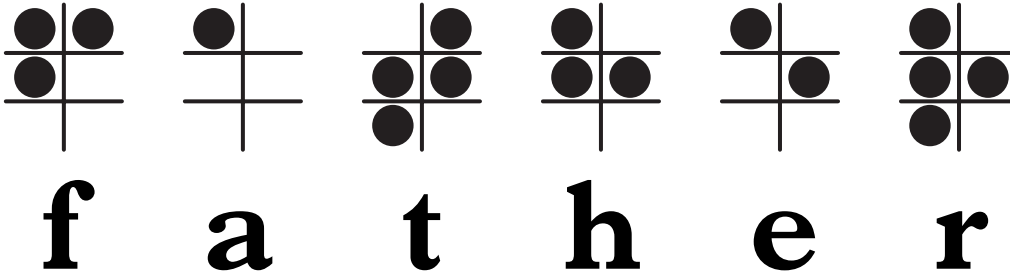
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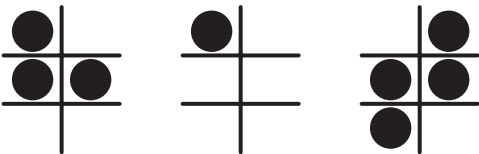
Marks

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

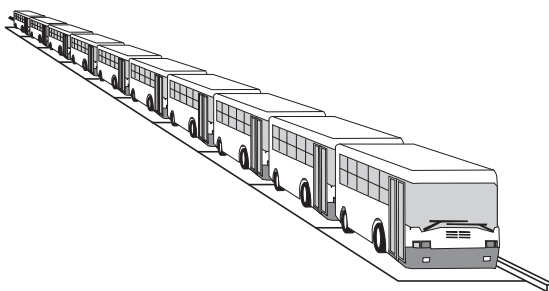
KU	RE

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.

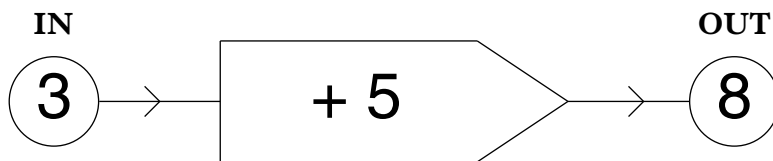


WORKING	
ANSWER	metres

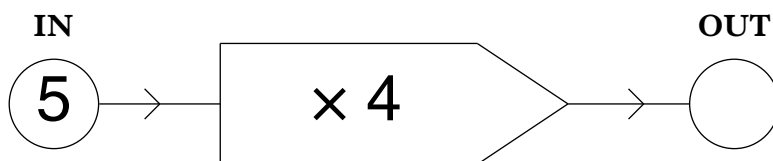
2

	KU	RE
1		
2		

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



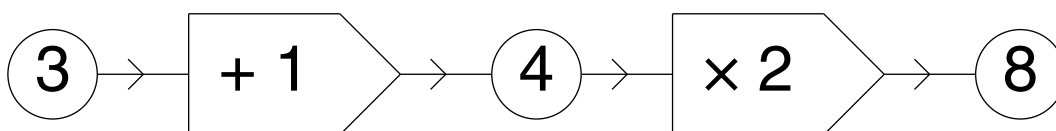
(a) Here is a different number machine. Complete this number machine.



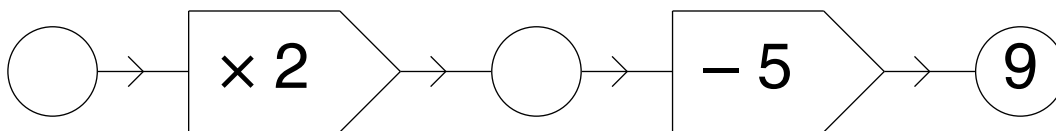
WORKING	

1

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



Complete the number machine below.



WORKING	

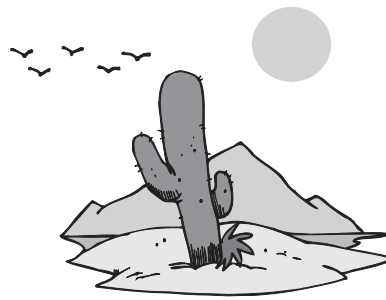
2

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

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F

KU RE

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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

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Scottish candidate number

--	--	--	--	--	--	--	--	--	--

Number of seat

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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

	KU	RE
4		
2		

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
2	
4	

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	£

(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)	

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

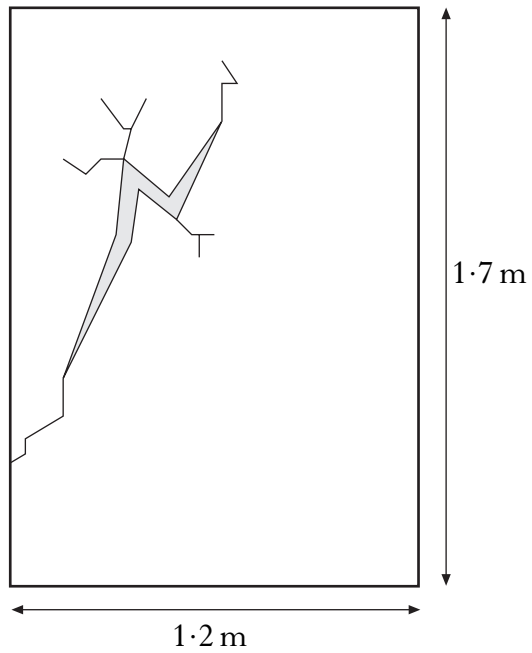
£

2

Marks

	KU	RE
2		
2		

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

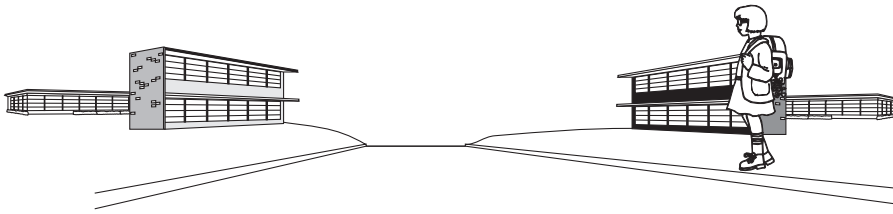
(b) Glass costs £7.25 per square metre.
How much will Bill pay for the glass?

WORKING	
ANSWER	£

Marks

	KU	RE
1		
2		
3		

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?

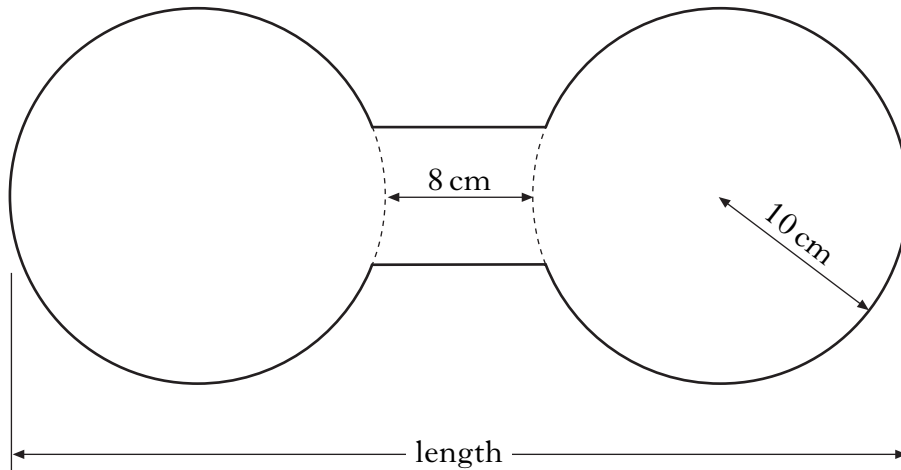
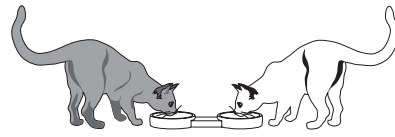
WORKING	
ANSWER	minutes

3

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

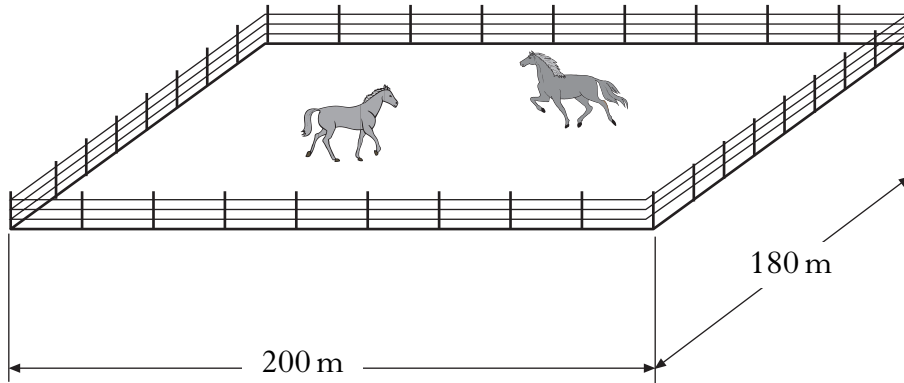
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Marks

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

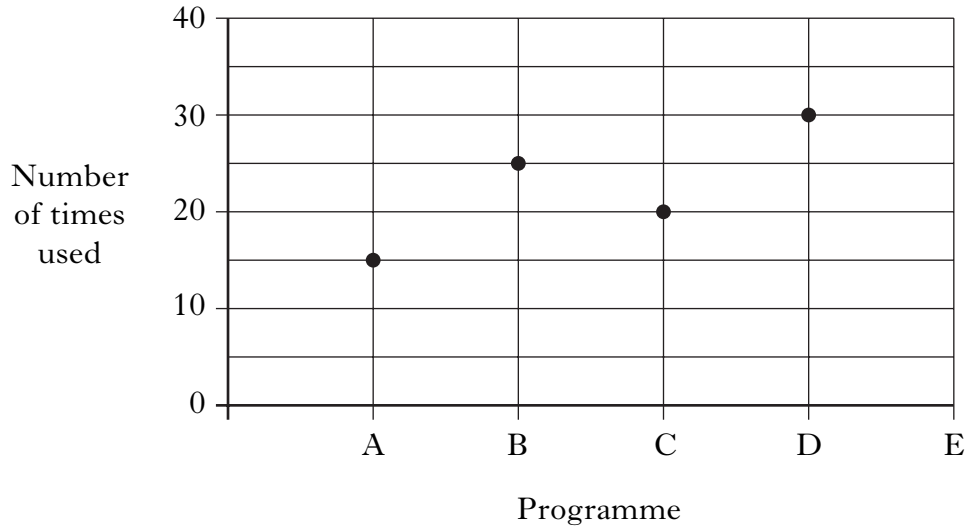
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Marks

	KU	RE
1		
1		

- 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 (**x**) on the graph to show this.

1

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



