

FOR OFFICIAL USE

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F

KU	RE

Total Marks

2500/401

NATIONAL
QUALIFICATIONS
2001

WEDNESDAY, 16 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

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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.
- 5 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
2	
2	

2. Find $33\frac{1}{3}\%$ of £480.

WORKING

ANSWER £

3. Steve buys a car for £4950.
When he sells it he makes a profit of £849.
Find the selling price of the car.

WORKING

ANSWER £

Marks

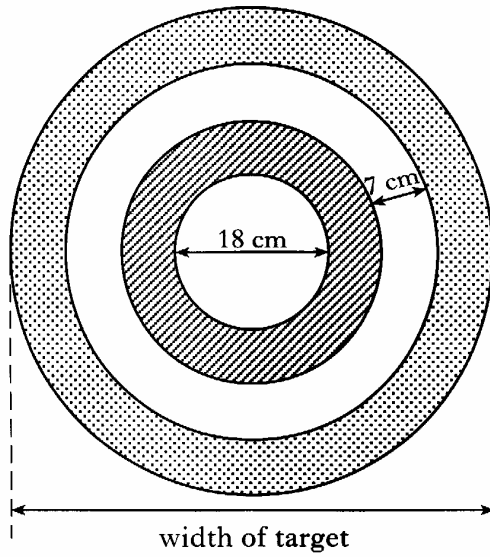
KU RE

4. This target consists of a centre circle surrounded by three rings.

The diameter of the centre circle is 18 centimetres.

The width of **each ring** is 7 centimetres.

Find the width of the target.



WORKING

ANSWER

centimetres

3

6. Sally works night shift so she has to sleep during the day.

(a) She sets her alarm clock to go off at 1620.

Write this as a 12-hour time.

ANSWER		pm
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(b) She goes to bed at 0835.

How long is it until her alarm goes off?

WORKING		
ANSWER	hours	minutes

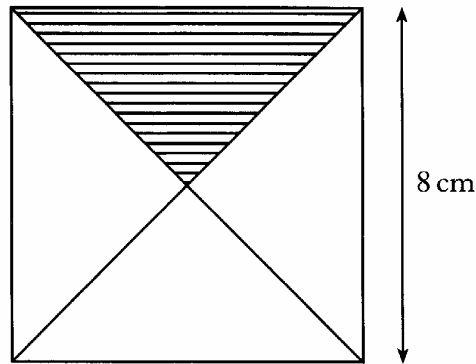
Marks

KU	RE
1	
2	

Marks

KU RE

7. A square tile is 8 centimetres long.



(a) Find the area of the tile.

WORKING	
ANSWER	square centimetres

2

(b) Calculate the shaded area.

WORKING	
ANSWER	square centimetres

3

[END OF QUESTION PAPER]

FOR OFFICIAL USE

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F

KU RE

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Total Marks

2500/402

NATIONAL
QUALIFICATIONS
2001

WEDNESDAY, 16 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

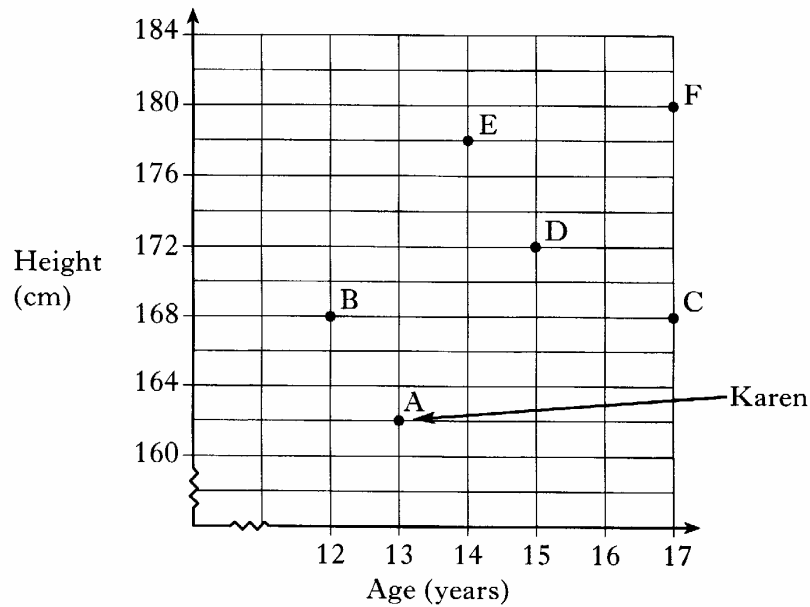
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Number of seat

- You may 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.**
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KU	RE

4. The graph shows the ages and heights of a group of pupils.



(a) Dot A represents Karen's age and height.

Write down Karen's age and height.

ANSWER	Age	years
	Height	centimetres

2

(b) Use the clues below to match the pupils with the other dots.

Maria is the same height as Shona.

Tom and Maria are twins.

Peter is taller than Robert.

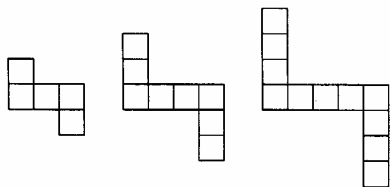
WORKING						
ANSWER						
NAME	Karen	Maria	Tom	Shona	Peter	Robert
DOT	A					

3

Marks

	KU	RE
4		
2		

5. These patterns are made with squares.



Pattern 1 Pattern 2 Pattern 3

(a) Complete this table.

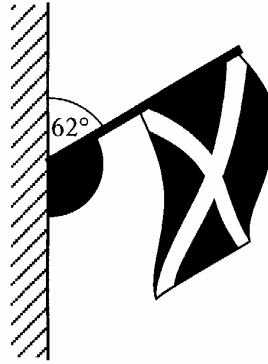
Pattern number	1	2	3	4	5	6		11
Number of squares	5	8						

WORKING

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

RULE

6. A flagpole makes an angle of 62° with a wall.
Calculate the size of the shaded angle.



WORKING

ANSWER

°

Marks

KU RE

2

7. A shop advertises this special offer.

Buy three* items from our range and get this bag FREE

*No more than 2 items can be the same

Soap	£5
Shampoo	£6
Shower Gel	£7
Deodorant	£9

Irene has £20 to spend. The table below shows one way that she can get the free bag.

ITEM 1	ITEM 2	ITEM 3	TOTAL
Soap	Soap	Shampoo	£16

Complete the table to show five other ways that Irene can get the free bag.

3

8. (continued)

(c) An electrical socket is shown on the plan.

On the lawn, mark X at the point which is furthest from the socket.

(d) Roslyn's electric lawn mower has a 25 metre cable.

When she plugs it into the socket will it reach all parts of the lawn?

Give a reason for your answer.

WORKING

ANSWER (INCLUDING REASON)

Marks

KU RE

1

4

Marks	KU	RE
3		
1		

9. During a two week period the temperature in Perth is noted each day. These temperatures are shown below.

16°C 15°C 14°C 16°C 15°C 16°C 16°C
 17°C 17°C 15°C 16°C 17°C 14°C 12°C

(a) Complete the frequency table for these temperatures.

Temperature (°C)	Tally	Frequency
12		
13		
14		
15		
16		
17		

(b) Write down the mode.

ANSWER		°C
--------	--	----

10. A child's dose of medicine is calculated using this rule.



$$\text{Child's Dose} = (\text{Adult's Dose} \times \text{Child's Age}) + (\text{Child's Age} + 12)$$

An adult's dose of cough medicine is 15 millilitres. Calculate the dose for an 8 year old child.

WORKING

ANSWER

millilitres

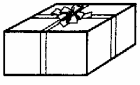

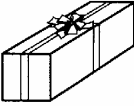

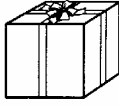
Marks

KU RE

2

11. Ribbon is used to decorate gift boxes.

The total length of ribbon needed to decorate each of the boxes is shown below.

Box					
	A	B	C	D	E
Length of ribbon	140 cm	75 cm	70 cm	90 cm	120 cm

Anne has 2 metres of red ribbon and 3 metres of yellow ribbon which is enough to decorate all the boxes.

She cuts the ribbon so that she has one length for each box.

Complete the table to show which colour of ribbon is used for each box.

WORKING	ANSWER	
	Box	Colour of Ribbon
	A	
	B	
	C	
	D	
	E	

3

YOU MAY USE THE BLANK WORKING BOXES ON THE OPPOSITE PAGE IF YOU WISH.

11. (continued)

Box	Colour of Ribbon
A	
B	
C	
D	
E	

Box	Colour of Ribbon
A	
B	
C	
D	
E	

Box	Colour of Ribbon
A	
B	
C	
D	
E	

Box	Colour of Ribbon
A	
B	
C	
D	
E	

Marks

KU RE

