FOR OFFICIAL USE				
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KU	RA
Tota	l Marks

## 2500/401

NATIONAL QUALIFICATIONS 2000

THURSDAY, 18 MAY 9.00 AM - 10.10 AM

MATHEMATICS STANDARD GRADE Foundation Level

cover and resid what is printed below.	<b>Linea</b>
Fororeine(s)	Sumame
Ebirth Month Year Scottish candidate number	Number of seat
wer as many questions as you can.  Licarefully and write your answers clearly in to the same of the examination room you must give the lase all the marks for this paper.	



				Marks	KU
his question v	vill be read to you.				
NOTES/WO	RKING				
			·		
ANSWER	£			3	
his question v	will be read to you.				
		·			
NOTES/WO	RKING				
ANICHUED					
ANSWER			rolls	3	
	211.1	· .			
nis question	will be read to you.				
NOTES/WO	RKING		·		
	-	2.			
		sa ya sa			
ANSWER					
			seconds	3	

This question will be read to y	ou.				Marks	KU
NOTES/WORKING		*****				
ANSWER				miles	4	
			ê P			
	•					

KU RA Marks Draw this shape on the grid below. 5. Make each sof its sides half as long.

									Marks	KU
I'hese	e patterns are made w	ith cir	cles.							
						) ) (				
	Pattern 1	Pa	attern	2		Pat	etern 3	)		
(a) (	Complete this table.									
	Pattern number	1	2	3	4	5	6	11		
	Number of circles	4	7						4	
MOI										
WOI	RKING									
									·	
	•									
					<b></b>					
(b) V	Write down a rule fo	r findi	ing the	e num	ber o	f circl	es if you	know the		
ľ	pattern number.		0				vo ir you			
DIII	D.									
RUL	ZE									
							¥ T			
-		* *							2	
	•									

KU RA Marks 7. The angle at each corner of this gate is a right angle. Calculate the size of the shaded angle. WORKING 2 **ANSWER** 

A car uses 57 litres of petrol for a journey. Petrol costs 69 pence per litre. Four friends share the cost of the petrol. How much would each have to pay? WORKING **ANSWER** £ [2500/401] Page seven [Turn over

8.

KU RA

Marks

9. This is a multiplication square.

5	×	2	=	10
×	is go	×		×
4	×	3	=	12
=		=		=
20	×	6	=	120

(a) Complete this multiplication square.

4	×	6	=	
×		×		×
3	×	5	=	
=		Ξ		=
	×			

(b) Complete this multiplication square.

5	×		=	
×		×		×
	×		H	16
=		=		=
	×	18	=	720

2

3

Marks

KU RA

KU RA Marks A group of friends collected money for charity by packing bags in a 10. supermarket. The graph shows how much they collected each day. £100 £80 £60 **Amount** collected **£**40 £20 Monday Tuesday Wednesday Thursday Friday Day How much did they collect on Tuesday? **ANSWER** £ 1 Calculate the average amount of money they collected each day. WORKING **ANSWER** £

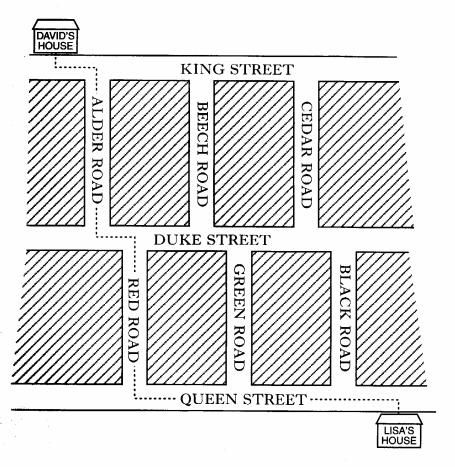
	Marks	KU RA
This container holds 3 litres of milk when full.  How much milk is in the container when it is one fifth full?  Give your answer in millilitres.  MILK 3 litres		
WORKING		
ANSWER millilitres	4	
•		

11.

Marks

KU RA

12. The map shows where David and Lisa live.



One way of going from David's house to Lisa's house is shown.

King Street → Alder	Road → Duke Street → Red R	Road → Queen Street
King Street	Duke Street	Queen Street
King Street	Duke Street	Queen Street
King Street	Duke Street	Queen Street
King Street	Duke Street	Queen Street
King Street	Duke Street	Queen Street

Complete the table to show five other possible ways of going from David's house to Lisa's house.

13. This is a one centimetre cube. 1 cm 1 cm 1 cm (a) How many one centimetre cubes are needed to fill this box? 2 cm WORKING **ANSWER** 2 cubes

Page twelve

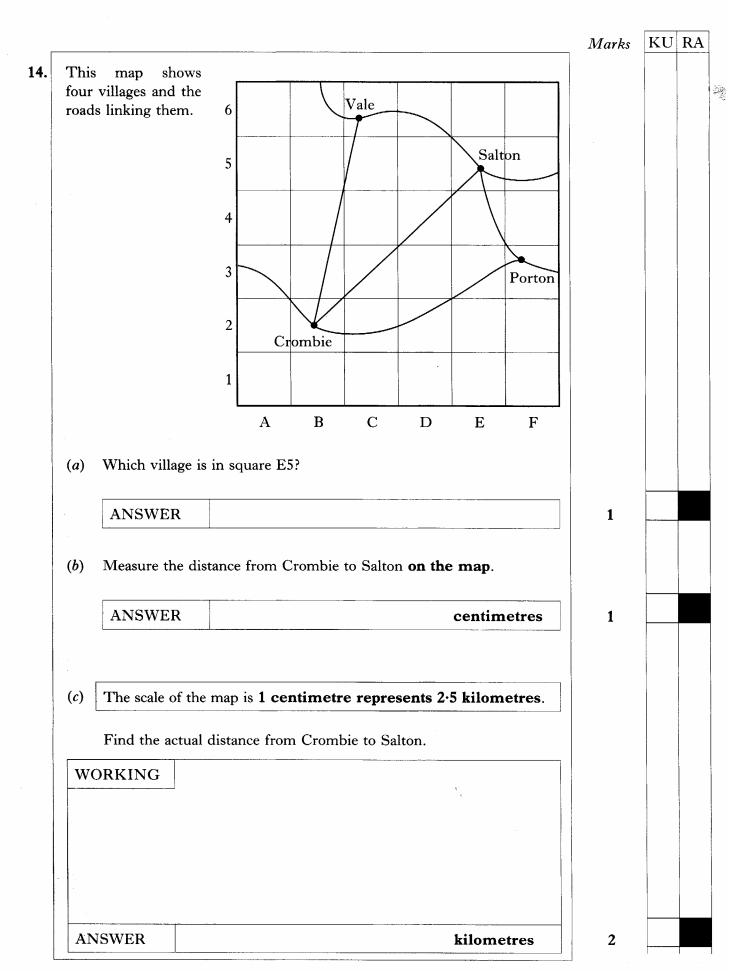
[2500/401]

KU RA

Marks

		Marks	KU		
(0	continued)				
(b	of cubes are there enough to make this stack?				
	Give a reason for your answer.				
_					
'	WORKING				
			-		
	ANSWER (INCLUDING REASON)				
	AND WERT (INVESTED IN THE INTERPRETATION OF				
			:		
		4		L	
	Page thirteen				

[Turn over



A ladder has three so	ections.	<b>↑</b>		
Each section is 4 me	tres long.			
For safety reasons to overlap by one ladder is fully extended.	metre when the	4 metres		
What length is the fully extended?	ladder when it is			
		1 11-4		
		1 metre overlap		
	•			
en e				
		Шш		
WORKING				
-				
• •				
ANOTOR				
ANSWER	-	metres	2	
		a ?		
e de la companya de l				

Page fifteen

[Turn over

he table shows sunris	se and sunset times on Sat	urdays in April.		
DATE	SUNRISE	SUNSET		
April 1st	0645	2000		
April 8th	0625	2010		
April 15th		2030		
April 22nd		2040		
April 29th	0535	2055		
n) On April 8th sun	rise is at 6·25am.			
When is sunset of				
	as a 12 hour time.			
WORKING				
		•		
ANOMED				
ANSWER		pm		
	om sunrise to sunset on A	pril 8th?		
WORKING				
		* * * * * * * * * * * * * * * * * * *		
ANSWER	hours	minutes	2	
•				

KU RA

Marks

16.

The pie chart sl	hows the items that make up Gemma's gross pay.	Marks	KU
	Gemma's Gross Pay		
(a) What perc	Net Pay 70%  Pension 6%  Income Tax  rentage of her gross pay is income tax?		
WORKING			
ANSWER	%	3	
(b) Gemma's	gross pay is £1800. her net pay.	3	
(b) Gemma's Calculate B	gross pay is £1800.  ner net pay.	3	
(b) Gemma's ( Calculate l	gross pay is £1800. ner net pay.	3	
(b) Gemma's Calculate B	gross pay is £1800.  ner net pay.	3	
(b) Gemma's Calculate b	gross pay is £1800.  ner net pay.	3	

KU RA Marks 18. The seven boxes shown below have to be loaded into three vans. Each van can carry no more than 500 kilograms. Show a way of loading all the boxes into the three vans. WORKING **ANSWER** VAN 1 VAN 2 VAN 3 3 YOU MAY USE THE BLANK WORKING BOXES ON THE OPPOSITE PAGE IF YOU WISH.

(continued)			KU
VAN 1	VAN 2	VAN 3	
VAN 1	VAN 2	VAN 3	
VAN 1	VAN 2	VAN 3	:
VAN 1	VAN 2	MANI 2	
VAIVI	VAIN Z	VAN 3	

a) A book o	f raffle tickets contains 10	0 tickets.		
•	et costs 20 pence.			
	ch does a book of raffle ti	ickets cost?		
· · · · · · · · · · · · · · · · · · ·				
WORKING				
ANSWER	£		2	
b) The number	per on the first ticket in a	book is 521.		
,				
	No 521	No 521		
	Name	RAFFLE		
	Address			
			i	
		Price 20n		
		Price 20p		
What is				
	the number on the last ti			
What is	the number on the last ti			
	the number on the last ti			
	the number on the last ti			
	the number on the last ti			
	the number on the last ti	cket in this book?		
	the number on the last ti	cket in this book?		
	the number on the last ti	cket in this book?	2	

a) A book of	f raffle tickets contains 10	0 tickets.			
	et costs 20 pence.		ì		
How muc	ch does a book of raffle ti	ickets cost?			
WORKING					
ANSWER	£			2	
	No 521	No 521			
	No 521	No 521			
		No 521			
	Name	RAFFLE			
	Name				
What is	Name	RAFFLE Price 20p			
What is	Name	RAFFLE Price 20p			
	Name	RAFFLE Price 20p			
	Name	RAFFLE Price 20p			
	Name	RAFFLE  Price 20p  cket in this book?			
	Name	RAFFLE  Price 20p  cket in this book?			