FOR OFFICIAL USE			



## 2500/402

NATIONAL QUALIFICATIONS 2010 WEDNESDAY, 5 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
<ul> <li>Date of birth</li> <li>Day Month Year Scottish candidate number</li> <li>You may use a calculator.</li> <li>Answer as many questions as you can.</li> <li>Write your working and answers in the spaces provide the end of this question-answer book for use if require clearly the number of the question involved.</li> <li>Full credit will be given only where the solution contation for the paper.</li> </ul>	er Number of seat





		Marks	KU
A joiner is paid	a basic rate of $f_{23.75}$ per hour.		
He is paid dou	o paid for working 8 hours on a Sunday.		
WORKING			
ANSWER	£		
		1	

2	
2	
	2

	· · · · · · · · · · · · · · · · · · ·		•		6					Mark	s <u>KU</u>	
Anne	e is drawing crosses. Eac	h cross	is ma	de up	ot sq	uares	as sh	own.				
	Cross number 1	Cross numbe	er 2			Cro nur	ss nber	3				
( <i>a</i> )	Complete this table.											
	Cross number	1	2	3	4	5	6		11			
	Number of squares	5	9									
										4		
(b)	Write down a rule for fi cross number.	nding t	he nu	mber	of sq	uares	if yo	u kno	w the	4	Γ	
(b) RU	Write down a rule for fi cross number. LE	nding t	he nu	mber	of sq	uares	if yo	u kno	w the	4		
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club outing are sho	wn below.		
£ 45·84 £ 67·72 £ 27·50 £			
£ 222·81			
es to the Course.			
		3	
	club outing are sho £ 45.84 £ 67.72 £ 27.50 £ £ 222.81 es to the Course.	club outing are shown below. <u>£ 45-84 £ 27-50 <u>£</u> <u>£ 222-81</u> es to the Course.</u>	club outing are shown below. <u><u>f</u> 45.84 <u>f</u> 27.50 <u>f</u> <u>f</u> 222.81 es to the Course. 3</u>

Marks |KU|RE

5. The timetables below show the times of the ferries between Ardrossan and Brodick.

Ardrossan	Brodick	Brodick	Ardrossan
Depart	Arrive	Depart	Arrive
07 00	07 55	08 20	09 15
09 45	10 40	11 05	12 00
12 30	13 25	13 50	14 45
15 15	16 10	16 40	17 35
18 00	18 55	19 20	20 15

(*a*) How long does the ferry take from Ardrossan to Brodick?

ANSWER	minutes

(b) One day Sophia took the first ferry from Ardrossan to Brodick and the last ferry back.

How long did Sophia spend in Brodick?

WORKING

ANSWER

hours

minutes

4

		Marks	KU
bes are stacked in a corner as shown below. We many cubes are in the stack? YORKING NSWER	w.		
How many cubes are in the stack? WORKING			
ANSWER	cubes	1	

(a) What weight is shown on this	s scale?	KU
ANSWER	kilograms	
(b) What is this weight in gran	ns?	
ANSWER	grams 2	

KU RE Marks 8. The number of hours of sunshine in a town is being recorded over a seven-day period. The results for Sunday to Thursday are shown in the table below. Day Sunday Monday Tuesday Wednesday Thursday Hours of 8 7 10 5 6 sunshine (a)Complete the pictograph below for Wednesday and Thursday. Number of hours of sunshine = 2 hours of sunshine Sunday Monday Tuesday Wednesday 2 Thursday There was a total of 43 hours of sunshine in the week. *(b)* Friday had one less hour of sunshine than Saturday. Complete the table for Friday and Saturday. WORKING ANSWER Day Sunday Monday Tuesday Wednesday Thursday Friday Saturday Hours of 8 6 7 10 5 sunshine 4

The amount of different weeks i	money spen s listed below.	t by the Kha	an family ead	ch week for fou	ır	
£170	£122	£110	£130			
Calculate the me	ean amount sp	ent each week				
WORKING						
ANSWER	£				4	



	Marks	KU	F
sail on a boat is in the shape of a angled triangle as shown below.			
4  m $2 \cdot 5 \text{ m}$			
WORKING			
ANSWER square metres	3		

		Marks	KU
The diagram be the four stands a	low shows the number of spectators who can sit in each of at a Premiership football stadium.		
	North Stand 16 500		
West Stand	0098		
	South Stand 18000		
WORKING			
WORKING			
WORKING	spectators	2	
WORKING ANSWER (b) To allow Stand will The numb increased b Find the <b>to</b>	spectators more spectators to see the football matches, the South be enlarged. ber of spectators allowed into the <b>South Stand</b> will be by 25%. <b>otal</b> number of spectators the stadium will then hold.	2	
WORKING ANSWER (b) To allow Stand will The numb increased b Find the <b>to</b> WORKING	spectators more spectators to see the football matches, the South be enlarged. ber of spectators allowed into the <b>South Stand</b> will be by 25%. <b>Detal</b> number of spectators the stadium will then hold.	2	
WORKING ANSWER (b) To allow Stand will The numb increased b Find the <b>to</b> WORKING	spectators more spectators to see the football matches, the South be enlarged. ber of spectators allowed into the <b>South Stand</b> will be by 25%. <b>otal</b> number of spectators the stadium will then hold.	2	

	Marks	KU
Ronnie Higgins plays snooker at his club.		
One day he placed 28 snooker balls beside his snooker cue as shown below. He noticed that they made a line <b>exactly</b> the same length as his snooker cue.		
Ronnie knows that his cue is 145.6 centimetres long. Calculate the <b>radius</b> of one snooker ball.		
WORKING		
ANSWER centimetres		
	3	
		1

		Marks	KU	
The plus	e guidelines for cooking a <b>small</b> turkey are 45 minutes per kilogram s a further 20 minutes.			
Thi	s gives the formula for cooking a <b>small</b> turkey.			
	Cooking time in minutes = weight in kilograms $\times$ 45 + 20			
( <i>a</i> )	Calculate the cooking time in minutes for a <b>small</b> turkey weighing 3 kilograms.			
W	ORKING			
AN	NSWER minutes	2		
( <i>b</i> )	The guidelines for cooking a <b>medium</b> turkey are 40 minutes per kilogram plus a further 25 minutes.			
	Complete the formula for cooking a <b>medium</b> turkey.			
	Cooking time in minutes =			
		2		-
				1

## [END OF QUESTION PAPER]

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