FOR OFFICIAL USE			

F

KU	RE
Total	Marke

## 2500/402

NATIONAL QUALIFICATIONS 2009 WEDNESDAY, 6 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.	
2 Answer as many questions as you can.	
Write your working and answers in the spaces pro the end of this question-answer book for use if r clearly the number of the question involved.	•
4 Full credit will be given only where the solution con-	tains appropriate working.
5 Before leaving the examination room you must giv not, you may lose all the marks for this paper.	e this book to the invigilator. If you do





г			Marks	KU	RE
	Six friends go fo	or a meal.			
	The total bill is	£122·64.			
	They share the	oill equally.			
	How much does	each person pay?			
	WORKING				
	ANSWER	£	2		
			_		

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Marks

KU	RE
110	1(1)

2. A garage has installed a drinks machine for its customers.

> The drink can be Tea or Coffee The size can be Large or Small The colour can be Black or White

The table below shows one possible combination.

Complete the table to show five other combinations.

Drink	Size	Colour
Tea	Small	White



		Marks	KU	RE
A matchbox is	in the shape of a cuboid.			
It is 6 centimet	res long, 4 centimetres broad and 3 centimetres high.			
	3 cm			
	Joen Joen			
	4 cm			
	6 cm			
C-11-+				
Calculate the v	olume of the matchbox.			
WORKING				
ANSWER	cubic centimetres	2		
		_		

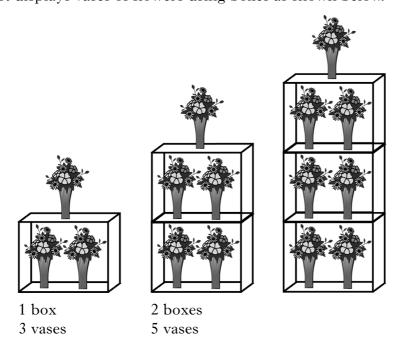
[2500/402] Page four

3.

Marks

KU RE

**4.** A florist displays vases of flowers using boxes as shown below.



(a) Complete this table.

Number of boxes	1	2	3	4	5	6	11
Number of vases	3	5					

WORKING

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

RULE

Th:	is table show	s the cos	t of a room po	er week in three	different hotels.	Marks	KU	R
			C	OST PER WEE	ŽK			
			January	February	March			
-	Hotel Spru	ce	£230	£240	£255			
	Hotel Alpir	ne	£215	£235	£250			
	Hotel Nord	lic	£190	£220	£240			
A]	NSWER	£				1		
b) W				<b>x</b> stay in one of t				
— A1	NSWER	Hotel		Month				
		1				3		

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5.

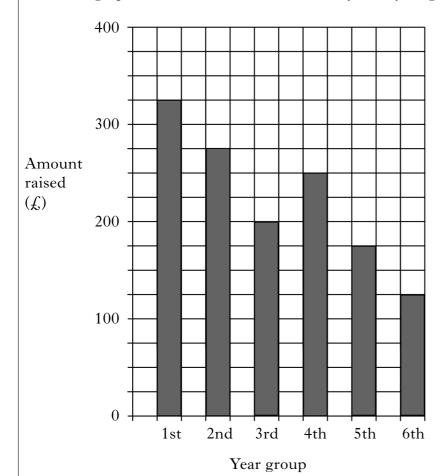
One of the col	oldest temperatures recorded in Scotland is shown on the		
thermometer b			
	<b>−</b> 0 °C		
	<b> </b>		
	<u>−</u> −10 °C		
	-		
	20 °C		
	-		
	<b> </b>		
	-		
What temperat	ture does the thermometer show?		
What temperat	ture does the thermometer show?		
What temperat ANSWER	ture does the thermometer show?	1	
		1	
		1	
		1	
		1	
		1	
		1	
		1	
		1	
		1	
		1	
		1	
		1	
		1	

Marks

KU RE

7. Bellforth Academy has raised money for the victims of an earthquake.

The bar graph shows how much was raised by each year group.



(a) Which year group raised the most money?

ANSWER

(b) What was the total amount raised by Bellforth Academy?

WORKING

ANSWER £

3

**8.** To donate blood you must:

- be aged 17 or over
- weigh more than 8 stones
- wait at least 16 weeks since your last donation.

DO	NAT	Έ	BLOOD

Give your blood and save a life



	Age	Weight (stones)	Weeks since last donation
John	24	10	14
Paul	32	12	20
Anne	45	7	35
Steven	19	11	17

Which **two** people could **not** donate blood?

Give the reason why each person could not donate blood.

NAME		REASON	
NAME		REASON	
	,		

Anna needs 83 tiles for her bathroom.  The tiles are only sold in boxes of 10.  Each box of tiles costs £24.  How much will Anna pay for her tiles?  WORKING	
of 10.  Each box of tiles costs £24.  How much will Anna pay for her tiles?	
How much will Anna pay for her tiles?	
How much will Anna pay for her tiles?	
WORKING	
ANSWER £	_

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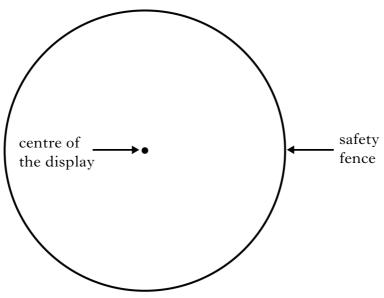
						Marks	KU	R
Donald weighs hi	mself eve	ry mont	h for	6 months.				
The weights (in k	ilograms)	are liste	ed be	low.				
83 81	78	80	78	77				
Calculate Donald	's mean w	eight ov	ver th	e 6 months.				
WORKING								
ANSWER					kilograms			
THOWER					Miogramo	4		
					I		1	

KU RE Marks 12. Kitchen Display has designed a glass sign to place outside its shop. The design is based on the letters K and D as shown below. 110° The design has one large piece of glass and two identical smaller pieces of glass. Calculate the size of the shaded angle. WORKING **ANSWER** 3

**13.** A firework display is being prepared.



For safety, a circular fence is erected as shown on the plan below.



(a) **On the plan**, measure the distance, in centimetres, from the centre of the display to the safety fence.

ANSWER centimetres

The scale of the plan is 1 centimetre represents 3 metres.

(b) Find the **actual** distance from the centre of the display to the safety fence.

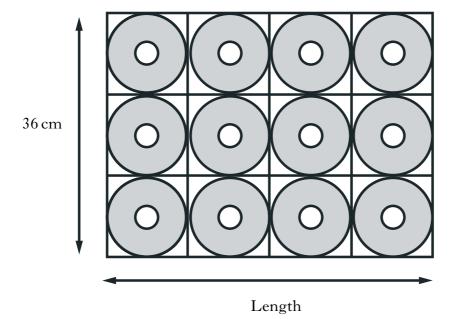
WORKING	
ANSWER	metres

2

		Marks	KU
This is	a rule used to convert kilometres to miles.		
	Number of miles = 5 × Number of kilometres ÷ 8		
	n a 10 kilometre race. te how many miles Jozef ran.		
Calcula	te now many mines jozef ran.		
WORI	KING		
ANSV	VER miles	2	

KU RE Marks 2

15. Samantha made a rectangular wall display using her favourite compact discs.



Each compact disc has a radius of 6 centimetres.

The breadth of the display is 36 centimetres.

Calculate the length of the display.

WORKING	
ANSWER	centimetres
<u> </u>	

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To improve her fitness, Louise has been set a target of powerwalking 200 miles in 3 months.  She walks  1 mile every day in March 2 miles every day in May. Did Louise meet her target? You must give a reason for your answer.  WORKING  ANSWER INCLUDING REASON  [END OF QUESTION PAPER]		Marks	KU
• 1 mile every day in March • 2 miles every day in April • 3 miles every day in May. Did Louise meet her target? You must give a reason for your answer.  WORKING  ANSWER INCLUDING REASON  4			
2 miles every day in April     3 miles every day in May. Did Louise meet her target? You must give a reason for your answer.  WORKING  ANSWER INCLUDING REASON  4			
2 miles every day in April     3 miles every day in May. Did Louise meet her target? You must give a reason for your answer.  WORKING  ANSWER INCLUDING REASON  4	1 mile every day in March		
3 miles every day in May. Did Louise meet her target? You must give a reason for your answer.  WORKING  ANSWER INCLUDING REASON  4			
Did Louise meet her target? You must give a reason for your answer.  WORKING  ANSWER INCLUDING REASON  4			
WORKING  ANSWER INCLUDING REASON  4			
ANSWER INCLUDING REASON  4		<b>&gt;</b>	
4	WORKING		
4			
4			
4			
	ANSWER INCLUDING REASON		
		4	
[END OF QUESTION PAPER]		<b>*</b>	
[END OF QUESTION PAPER]			
[END OF QUESTION PAPER]			
	$[END\ OF\ QUESTION\ PAPER]$		