

FOR OFFICIAL USE

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F

KU

RE

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Total Marks

2500/401

NATIONAL
QUALIFICATIONS
2004

FRIDAY, 7 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

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

Scottish candidate number

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

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
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1. Work out the answers to the following.

(a) $402 + 159 + 73$

WORKING

ANSWER

1

(b) $9.1 - 5.8$

WORKING

ANSWER

1

(c) $\frac{1}{9}$ of 108

WORKING

ANSWER

2

[illegible]

3. Mark works in a cafe.
His rate of pay is £4.32 per hour.
On Monday he works for 6 hours.
How much is he paid?

WORKING	
ANSWER	£

2

4. A dispenser holds 1 litre of liquid soap.



Each time the dispenser is used 4 millilitres of soap comes out.


How many times can the dispenser be used before the soap is finished?

WORKING

ANSWER

3

[illegible]

- # MUSIC
- 
- Issue Number 1
January 2004

- ## WORKING

Issue Number

- ## WORKING

Year

Marks

KU	RE
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6. Pat advertises his motorbike for sale at £950.
Dave offers to buy it for £870.
They agree on a price exactly half way between £950 and £870.
What price do they agree on?

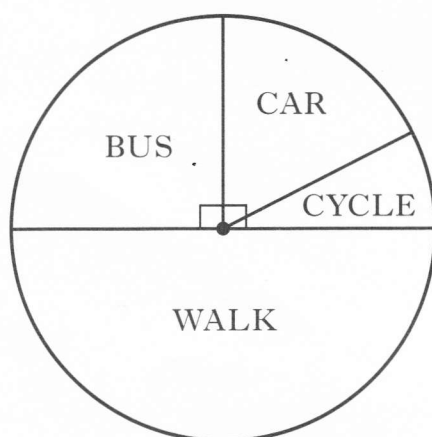
WORKING

ANSWER

£

2

7. In a survey, 80 pupils were asked how they travelled to school. The results are shown in the pie chart below.



6 pupils cycled to school.

How many pupils travelled by car?

WORKING

ANSWER

pupils

3

8. The table shows the charges for car parking at an airport.

AIRPORT PARKING CHARGES	
CAR PARK A	£6 per day
CAR PARK B	£35 for any period up to 1 week plus £4 for each extra day

- (a) Calculate the cost of parking a car in car park B for 10 days.

WORKING	
ANSWER	£

3

- (b) Farrah is going to park her car at the airport for 6 days.
Which car park would be cheaper for her?
Give a reason for your answer.

WORKING	
ANSWER INCLUDING REASON	

4

[END OF QUESTION PAPER]

FOR OFFICIAL USE

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F

KU

RE

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Total Marks

2500/402

NATIONAL
QUALIFICATIONS
2004

FRIDAY, 7 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

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

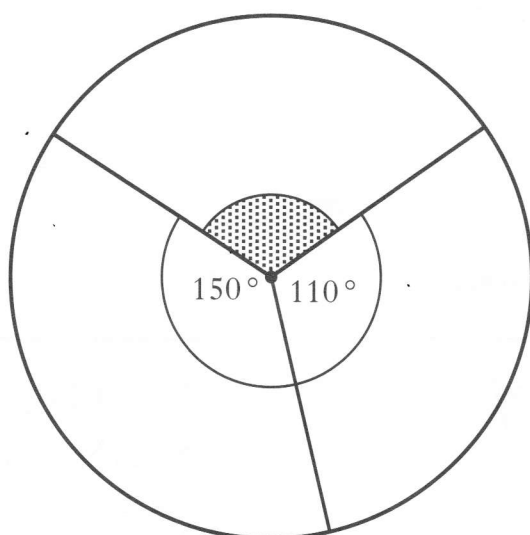
Number of seat

--

- 1 You may use a calculator.**
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1. Calculate the size of the shaded angle in the circle below.



WORKING

ANSWER

2

2. These 3 coins are tossed at the same time.



On landing, each coin can show head or tail.

One possible result is shown on the table.



Head	Head	Tail

Complete the table to show five other possible results.

3

-
- A diagram of a rectangular table with four rows and two columns of chairs. Each row contains one chair on the left and one chair on the right. A double-headed arrow at the bottom indicates the length of the table.

(a) Measure the width of the chest of drawers in the drawing.

centimetres

1

- (b) The scale of the drawing is **1 centimetre represents 15 centimetres**.
Find the actual width of the chest of drawers.

ANSWER

centimetres

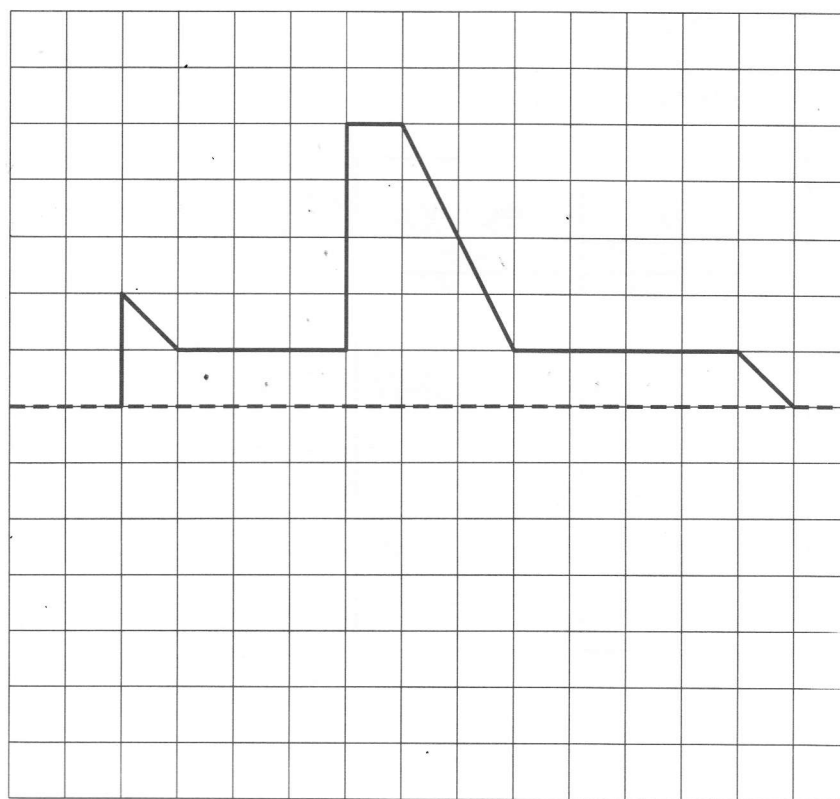
2

Marks

KU RE

4. The broken line is an axis of symmetry.

Complete the diagram.



4

Marks

KU RE

5. The ages of a group of college students are listed below.

19	23	19	18	19	20
21	18	21	19	18	19

- (a) Complete the frequency table for these ages.

Age (years)	Tally	Frequency
18		
19		
20		
21		
22		
23		

- (b) Write down the mode.

ANSWER	_____ years
--------	-------------

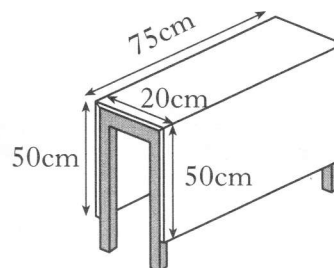
3

1

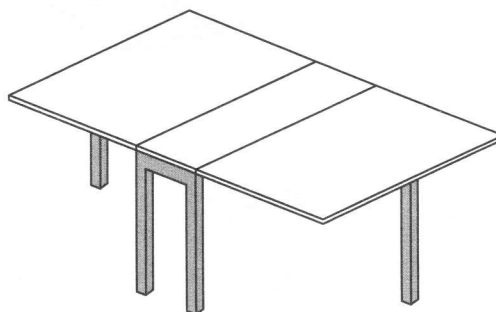
Marks

KU	RE
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6. The dimensions of a drop-leaf table are as shown.



When the table is opened out the three sections form a rectangle.



Find the area of this rectangle.

WORKING

ANSWER

square centimetres

3

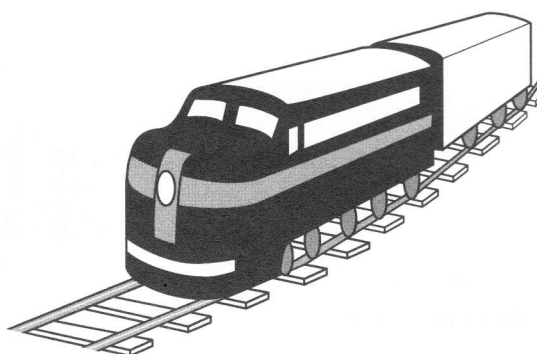
Marks

KU	RE
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7. A model train goes round a track once every 10 seconds.

How long does it take to go
round the track 25 times?

Give your answer in minutes and seconds.



WORKING

ANSWER

minutes

seconds

3

[illegible]

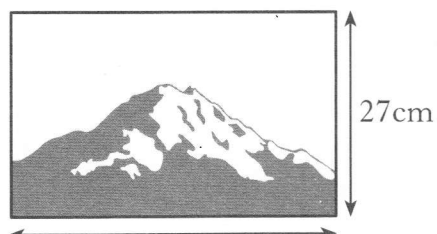
-
- A diagram of a bridge structure. It consists of four vertical rectangular supports of equal height, spaced evenly apart. Three curved lines, representing the bridge deck or spans, connect the top of each support to the top of the next support, creating a series of three arches. The entire structure is drawn in a simple, schematic style with black outlines on a white background.

Number of posts	2	3	4	5	6	7		11
Length of wire (metres)	2	4						

RULE

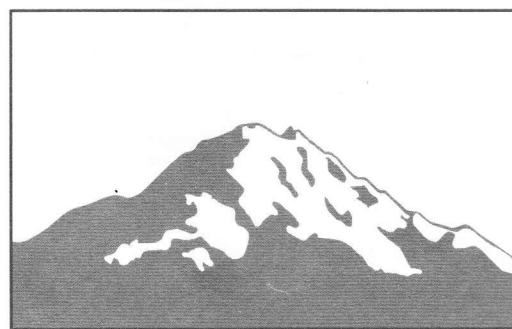
9. An art gallery sells prints of the paintings which it has on display.

(a) The print shown below is an enlargement of the painting.



36cm

PAINTING



Length

PRINT

The length and breadth of the print are each one and a half times the length and breadth of the painting.

Find the length of the print.

WORKING

ANSWER

centimetres

3

10. At the school fair there is a GRID GAME.

GRID GAME

* Pay 20 pence

* Write your name in a box

* Win £2 if you choose a winning box

9										
8				Bill						
7	Lucy							Kim		
6										
5						Jim				
4									Pat	
3										
2		Jim								
1										
	A	B	C	D	E	F	G	H	I	J

(a) Alan chose box C6.

Write "Alan" in box C6.

1

10. (continued)

(b) All the boxes are sold and four winners get £2 each.

How much profit is made from the Grid Game?

WORKING

ANSWER

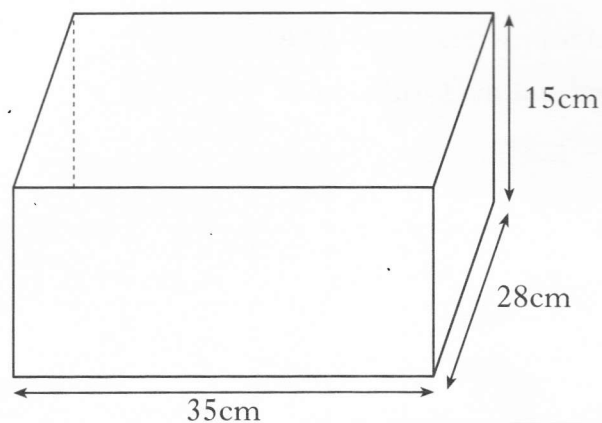
£

Marks

KU RE

4

11. (a) Calculate the volume of this box.



WORKING

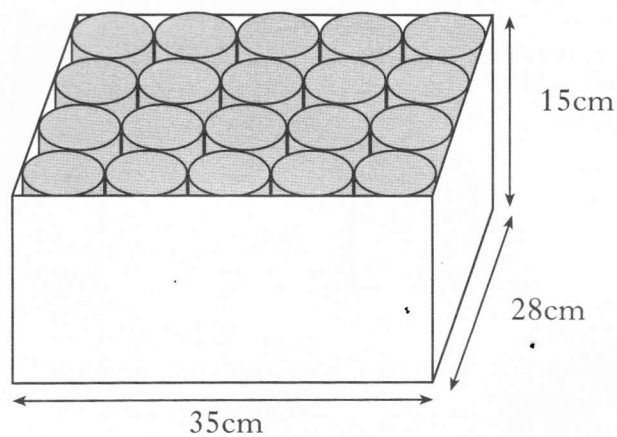
ANSWER

cubic centimetres

2

- (b) Identical tins are packed into the box as shown.

Each tin is a cylinder.



Calculate the radius of each tin.

WORKING

ANSWER

centimetres

3

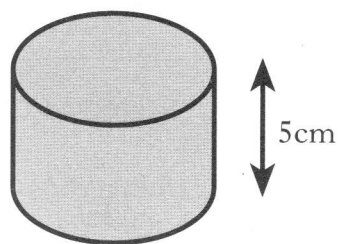
Marks

KU	RE
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11. (continued)

(c) Each tin is 5 centimetres high.

How many tins can be packed into the box?



WORKING

ANSWER

tins

3

Marks

KU	RE
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12. Mr and Mrs McLaughlin bought the bungalow described in the advertisement below.

BUNGALOW

Lounge, Dining-room, 3 Bedrooms.
Garage. Gas central heating.
Offers over £129 000

They paid 15% more than the price in the advertisement.

How much did they pay?

WORKING

ANSWER

£

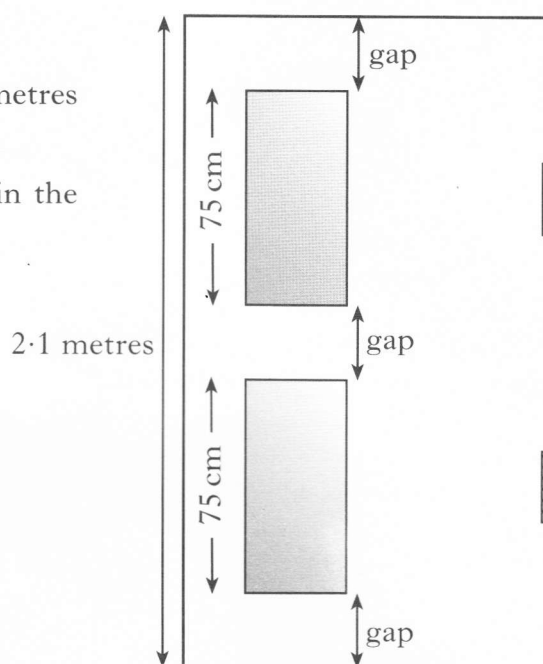
3

13. The height of this door is 2.1 metres.

It has two glass panels.

Each glass panel is 75 centimetres long.

Each of the three gaps shown in the diagram is the same length.



Find the length of each gap.

WORKING

ANSWER

centimetres

4

[END OF QUESTION PAPER]