

OXFORD CA General Cer	MBRIDGE AND RSA EX tificate of Secondary Ec	(AMINATIONS lucation				
MATHEMA PAPER 1 S FOUNDATIC	TICS B (MEI) SECTION B ON TIER	1968/2311B				
Tuesday	7 JUNE 2005	Afternoon	45 minutes			
Candidates answ Additional mater Electronic ca Geometrical Tracing pape	wer on the question paper. ials: Iculator instruments er (optional)					
			Candidate			

Candidate Name	Centre Number	Number

TIME 45 minutes

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and candidate number in the boxes above.
- Answer **all** the questions.
- Write your answers, in blue or black ink, in the spaces provided on the question paper.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- Show all your working. Marks may be given for working which shows that you know how to solve the problem, even if you get the answer wrong.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- Unless otherwise instructed in the question, take π to be 3.142 or use the π button on your calculator.
- The total number of marks for this section is 36.
- Section B starts with question 11.

FOR	EXAMINER	'S USE

Section B

This question paper consists of 10 printed pages and 2 blank pages.

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Formula Sheet: Foundation Tier





11 These are Mr Jones' electricity meter readings.

DATE	UNITS
January 31st 2005	70616
October 31 st 2004	69289

(a) How many units did Mr Jones use in this period?

(**a**).....[1]

(**b**) Complete his electricity bill.

units @ 6p per unit	£
Standing charge	£ 10.46
Total charge	£.

[3]

SQUARE CUBE MULTIPLE

FACTOR EVEN

(a) Choose a word from the list to complete the following.

- (i) 10 is an number.
- (ii) 4 is a of 20.
- (iii) 25 is a number.

[3]

(b) The number in each square is the difference between the numbers in the circles on either side. Fill in the two blank squares.



[2]

13 Sarah counted the numbers of items in ten school bags.

Here are her results.

27 13 17 22 41 15 19 25 14 18

Work out

(a) the range,

(**a**)[1]

(b) the mean number of items.

(b)[3]

14 Peter drew this plan of his rectangular garden. The scale is 1 cm to 5 m.

Find the length and width of his garden.

Length	•••••	m
Width .		m
		[3]

15 (a) Use p = 8 and q = 3 to work out the value of

2p-q.

(**a**)[2]

(b) Solve.

$$3x = 21$$

(b)[1]

16 Match each word with its correct definition.

DIAMETER is already done for you.



[3]



Stephanie hires a slab cutter. She pays a total hire charge of £44.50.

For how many days does she hire the slab cutter?

.....days [3]



This net is folded to make a solid.

(a) What is the name of the solid?

		(a)	[1]	l
(b)	Which edge will be joined to the one labelled b? Label this edge with b.		[1]]
(c)	Which vertices will be joined to the one labelled C? Label each of these vertices with C.		[2]]

19 The Louisiana Superdome in New Orleans has a playing area in the shape of a circle. It has diameter of length 208 m.

Calculate the circumference of the playing area.

.....m [2]

20 Twenty people took a reaction time test. Their times, in seconds, are shown below.

4.1	3.2	3.0	5.7	6.2	5.3	5.4	3.6	4.6	4.7
3.4	5.0	5.1	4.5	3.4	4.4	4.2	5.9	5.3	4.2

Construct a stem and leaf diagram to represent these data.



[3]

TURN OVER FOR QUESTION 21

21 The diagram shows the cross-section of a garden shed.



Calculate the area of the cross-section.

.....m² [2]

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