

OXFORD CA	AMBRIDGE AND RSA EX rtificate of Secondary Ec	KAMINATIONS ducation					
MATHEMA PAPER 1 FOUNDATIO	ATICS B (MEI) SECTION B ON TIER	1968/2311B					
Monday	5 JUNE 2006	Afternoon	45 minutes				
Candidates ans Additional mate Electronic ca Geometrical Tracing pap	wer on the question paper. rials: alculator instruments er (optional)						
	Opendidate Name			Candidate			

Candidate Name	Centre Number N					

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 10.

FOR EXAMI	NER'S USE

Section B

This question paper consists of 9 printed pages and 3 blank pages.

Formula Sheet: Foundation Tier





10 Marty asked 30 people how they travelled to go on holiday. His results are shown in this table.

Holiday travel	Frequency
Car	9
Train	6
Aeroplane	12
Coach	3

Draw a bar chart to illustrate his results.



Holiday travel

[3]

4





(b) Write down the coordinates of point C.

(**b**) C (.....)[1]

[2]

12 Write down the **metric** unit that would be most appropriate to measure these.

The distance from London to Paris,

.....[1]

The weight of a bag of potatoes,

.....[1]

The amount of milk in a carton.

.....[1]

13 (a) Measure the length of the diameter of this circle.



(**a**)cm [1]

(b) Calculate the area of a circle with radius 6 cm.

(b)cm² [2]

14 Which two of these fractions are **not** equivalent to $\frac{1}{5}$?

$$\frac{2}{10} \quad \frac{7}{35} \quad \frac{6}{25} \quad \frac{8}{40} \quad \frac{11}{15}$$

......and[2]

15 Tanita goes clay pigeon shooting. The total cost, in pounds, of a clay pigeon shoot is calculated using this formula.

Total $cost(f) = 25.50 + 0.17 \times number of clay pigeons used$

Tanita uses 75 clay pigeons.

Calculate the total cost.

£[3]

16 *N* is an odd number.

Choose one of these to complete each sentence.

EVEN ODD EVEN OR ODD

(a)	<i>N</i> + 2 is	[1]
(b)	2 <i>N</i> is	[1]
(c)	N^2 is	[1]

17 Mia recorded the numbers of words on 12 pages of a children's reading book.

	12	17	20	14	11	9	23	13	9	31	8	25
Calo	culate											
(a)	the range	,										

(**a**)[1]

(**b**) the mean.

(**b**)[3]

18 (a) Cereal bars are packed in boxes of 36. John wants 2500 bars.

How many boxes does he need to buy?

(**a**)[3]

(b) Individual boxes for breakfast cereals measure 7.5 cm by 3 cm by 10 cm. They are packed into cartons measuring 60 cm by 60 cm by 30 cm.

How many boxes can be packed into a carton?

(b)[3]

- 19 Judith travelled from Brussels to London on the train.
 - (a) Her ticket cost €157. The exchange rate was £1 = €1.43.

Change €157 into pounds.

(a) £[3]

(b) The distance from Brussels to London is 330 km. The train took 110 minutes.

Calculate the average speed of the train. Give your answer in kilometres per hour.

(b)km/h [3]

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