# OXFORD CAMBRIDGE AND RSA EXAMINATIONS <br> General Certificate of Secondary Education <br> MATHEMATICS B (MEI) <br> 1968/2311A <br> PAPER 1 SECTION A <br> FOUNDATION TIER <br> Monday <br> 5 JUNE 2006 <br> Afternoon <br> 45 minutes <br> Candidates answer on the question paper. <br> Additional materials: <br> Geometrical instruments <br> Tracing paper (optional) 

Candidate
Candidate Name

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.
- The total number of marks for this section is 36 .


| FOR EXAMINER'S USE |  |
| :---: | :--- |
| Section A |  |
| Section B |  |
| TOTAL |  |

Formula Sheet: Foundation Tier

Area of trapezium $=\frac{1}{2}(a+b) h$


1 (a)

## $\begin{array}{lllllll}3 & 4 & 18 & 25 & 40 & 63 & 81\end{array}$

From this list write down
(i) a multiple of 6,
(a)(i)
(ii) a factor of 20 ,
(iii) the square root of 9 .
(iii)
(b) Fill in the gaps.

| FRACTION |  | DECIMAL |  | PERCENTAGE |
| :---: | :---: | :---: | :---: | :---: |
| $\frac{1}{4}$ | = | 0.25 | $=$ | ................... |
| ........ | = | 0.3 | = | 30\% |
| $\frac{9}{100}$ | $=$ | .... |  | 9\% |

2 (a) Maria buys a sandwich costing $£ 1.85$ and a can of drink costing 72 p. She pays with a $£ 5$ note.

How much change should she get?
(a) $£$
(b) Work out.
(i) $25 \%$ of 600
(b)(i)
(ii) $\frac{2}{5}$ of 45
(ii)
(c) Write down a calculation you can do in your head to estimate the value of $98 \times 4.2$
(c) $\qquad$ $\times$ $\qquad$ $=$

3 (a) Solve.
(i) $8 x=40$
(a)(i)
[1]
(ii) $x+7=18$
(ii)
(b) Find the value of $6 a-2 b$ when $a=3$ and $b=7$.
(b)

4 Tariq went to London for the day. He spent a total of $£ 160$.

The pie chart shows how he spent the money.


How much did he spend on cinema tickets?
£

5 Draw a line from each shape to the expression for its perimeter. The first one has been done for you.


6 The stem and leaf diagram shows the amount, in pounds, spent on fuel by some motorists last week.

| 2 | 1 | 2 | 3 | 5 | 8 | 8 | 9 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 3 | 2 | 3 | 5 | 6 | 6 | 7 | 9 |
| 4 | 3 | 5 | 5 | 9 |  |  |  |
| 5 | 0 | 1 | 2 | 3 |  |  |  |
| 6 | 0 | 2 | 3 | 8 |  |  |  |
| 7 | 4 |  |  |  |  |  |  |

Key $2 \mid 3=23$
(a) How many motorists were asked?
(a)
(b) Find the median amount spent.
(b) $£$ .[1]

(a) Make a full-size drawing of this cuboid on the isometric grid.

(b) Work out the total surface area of this cuboid.
$\qquad$

8 Here are the ingredients for a recipe.

## SHREWSBURY BISCUITS

200 g flour 100 g butter 80 g sugar 50 g raisins makes 20 biscuits
(a) Clare uses the recipe to make some biscuits.

She uses 100 g of raisins.
How many biscuits does she make?
$\qquad$
(a)
(b) Felipe makes 30 biscuits.

Calculate how much sugar he uses.
(b)

9


Calculate the area of this trapezium.
Give the units of your answer.

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