## OXFORD CAMBRIDGE AND RSA EXAMINATIONS

General Certificate of Secondary Education

## MATHEMATICS C

 (Graduated Assessment)

1966/2341A

## FOUNDATION TERMINAL PAPER - SECTION A

Monday 5 JUNE 2006 Afternoon 1 hour
Candidates answer on the question paper.
Additional materials:
Geometrical instruments
Pie chart scale (optional)
Tracing paper (optional)
Candidate Name


Centre Number


Candidate Number


TIME 1 hour

## INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and candidate number in the boxes above.
- Answer all the questions.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- In many questions marks will be given for a correct method even if the answer is incorrect.
- Do not write in the bar code.
- Do not write outside the box bordering each page.
- WRITE YOUR ANSWER TO EACH QUESTION IN THE SPACE PROVIDED. ANSWERS WRITTEN ELSEWHERE WILL NOT BE MARKED.


## 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 50 .

| WARNING |
| :---: |
| You are not allowed to use a |
| calculator in Section A of this paper. |


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

This question paper consists of 11 printed pages and 1 blank page.

## Formula Sheet: Foundation Tier

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


1 Find the missing numbers.
(a) $\star+9=15$
(a)
(b) $23-0=10$
(b) ..................................[1]
(c) $5 \times>=45$
(c) ....................................[1]
(d) $\square \div 2=7$
(d) ...................................[1]


2

(a) Put these angles in order of size, smallest first.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
(b) Which angle is closest to $90^{\circ}$ ?
(b)


3 Complete.
(a) 526
$-142$

(b)

(c) $\square \times 5=65$
(d) $23.5 \div 10=\square$
(e) $2.6 \times 3=\square$
(f) $\frac{1}{4}$ of $84=\square$
(g) 6 squared $=\square$

4 Solve.
(a) $2 x=18$
(a)
(b) $5+x=20$
(b)
(c) 7-x=4
(c) ....................................[1]

5 Rachel wants to multiply 74.53 by 100.
Which of these are correct methods?
Put a tick $(\boldsymbol{J})$ or a cross $(\boldsymbol{X})$ next to each.
move the digits two places to the right
move the digits two places to the left
move the decimal point two places to the left
move the digit 7 to the thousands,
the digit 4 to the hundreds, and so on
put two zeros after the 3


6 Mrs Watson takes Andy and Paul on the Steam Special from York to Birmingham.
(a) Mrs Watson buys one adult and two child tickets.

They travel second class.

| Steam Special |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  Adult Child Senior citizen <br> Club member    <br> First class $£ 70$ $£ 45$ $£ 55$ <br> Second class $£ 50$ $£ 35$ $£ 42$ <br> $£ 25$    |  |  |  |  |  |

Complete the bill for the tickets.

| 1 adult ticket (second class) | £ ....... 50 |
| :---: | :---: |
| 2 child tickets (second class) | $£$. |
| Total | £ .......... |

(b) Paul records these times.

| Leave York | 1706 |  |
| :--- | :--- | :--- |
| Arrive Whittington | 1835 | Fill up with water |
| Leave Whittington | 1902 |  |
| Arrive Humberstone Road | 2029 | Fill up with water |
| Leave Humberstone Road | 2053 |  |
| Arrive Birmingham | 2234 |  |

(i) How long does the journey take from York to Birmingham?
(b)(i) $\qquad$ hours $\qquad$ minutes [2]
(ii) The train stops twice to fill up with water.

Which stop is the longer, Whittington or Humberstone Road?
By how many minutes?
You must show all your working.
(ii) $\qquad$ was longer by $\qquad$
(c) Mrs Watson takes a picnic on the trip.
(i) She packs some cartons of drink.

> 1 cranberry
> 3 orange
> 2 pineapple

She takes a carton without looking.
What is the probability that she picks orange?
(c)(i)
(ii) She packs plenty of sandwiches.
egg
ham
tuna
Paul eats two sandwiches.
Write down all the different pairs of sandwiches he could eat. The list has been started for you.


| egg | egg |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

7 Lisa and Angus are playing a game.
(a) Lisa says


Write down the name of the solid.
(a) ....................................[1]
(b) Angus says


Write down the fraction.
(b)
(c) Lisa says


Write down the number.
(c)
(d) Angus says


Write down the name of the shape.
(d)

## 8



Draw an enlargement of this shape.
Use a scale factor of 3 .


## Not to scale

(a) (i) Work out angle $x$.
(a)(i)
(ii) Is triangle ABC isosceles?

Give a reason for your answer.
$\qquad$ because $\qquad$
(b) This triangle is drawn full size.


Make some suitable measurements.
Use them to work out the area of this triangle.
(b) $\qquad$ . $\mathrm{cm}^{2}$ [3]
(c) Work out the interior angle, $x$, of a regular hexagon.


## Not to scale

(c)


10 Paula went shopping.
She bought some CDs, a ring and some clothes.
She spent a total of $£ 160$.
She spent $\frac{1}{5}$ of $\mathfrak{£} 160$ on CDs.
She spent $\frac{3}{8}$ of $£ 160$ on the ring.
How much money did she spend on clothes?

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