OXFORD CAMBRIDGE AND RSA EXAMINATIONS
General Certificate of Secondary Education

MATHEMATICS C   **1966/2341A**
(Graduated Assessment)

FOUNDATION TERMINAL PAPER – SECTION A

| Tuesday | **7 JUNE 2005** | 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.

•   Write your answers, in blue or black ink, on the dotted lines unless the question says otherwise.

•   Read each question carefully and make sure you know what you have to do before starting your answer.

•   There is a space after most questions. Use it to do your working. In many questions marks will be given for a correct method even if the answer is incorrect.

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.

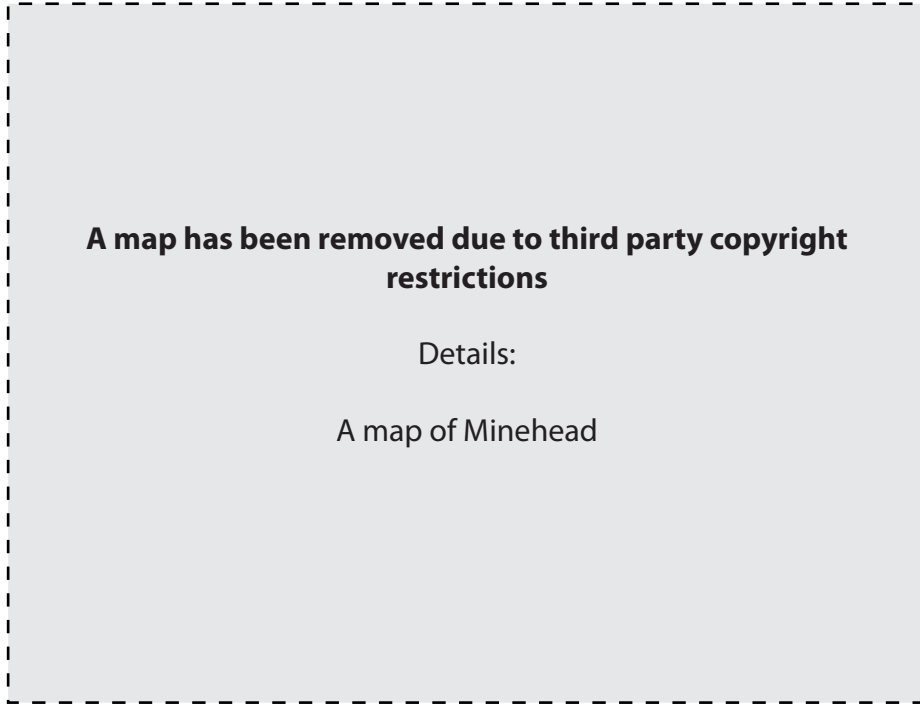| FOR EXAMINER'S USE	
Section A	
Section B	
TOTAL	

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

Formula Sheet: Foundation Tier

Area of trapezium $= \frac{1}{2}(a + b)h$
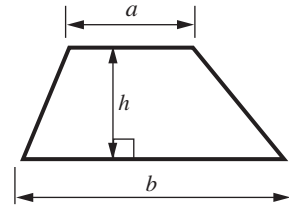
1   This is a map of Minehead.

> **A map has been removed due to third party copyright restrictions**
>
> Details:
>
> A map of Minehead

(a)   Andy turns left out of the Station.
       He walks along The Avenue.

       (i)   Which compass direction is he walking in?

                                                                (a)(i) ....[1]

       (ii)   Which building is on his right?

                                                                (ii)   ....[1]

(b)   Roger comes out of the Hotel and turns left into North Road.
       He turns left into Blenheim Road.

       Which compass direction is he walking in?

                                                                (b) ....[1]

(c)   Val walks from the Hotel to the Art Gallery.

       Complete these directions for her journey.

          Turn left out of the Hotel into North Road.

          Turn .... into Quay Lane.   [1]

          Turn left into ....   [1]

5

[Turn over

2 This timetable shows the times (**GMT**) of some of the Channel Tunnel trains.

London	05 33	06 34	07 39	08 12	09 09	10 12	10 42
Paris	08 23	09 23	10 23	10 47	11 53	12 53	13 34
Paris	13 43	15 07	16 10	16 43	17 16	18 19	19 43
London	16 28	17 57	18 57	19 25	19 58	20 54	22 28

(a) (i) At what time does the 08 12 from London arrive in Paris?

(a)(i) ....[1]

(ii) How long does the journey take?

(ii) ....hours .... minutes [1]

(b) Bev arrives in Paris at 09 23.
She spends 8 hours shopping in Paris.

What is the time of the next train she can catch back to London?

(b) ....[1]

(c) Mary is taking her grandchildren to Paris for the day.
She needs 1 adult ticket and 3 child tickets.
This table shows the ticket prices.

	Single	Return
Adult	£40	£59
Child	£25	£48

How much does she save altogether by buying 4 return tickets instead of single tickets?

(c) £................................[5]

8

3 Use this list of numbers to complete the statements below.
You can use the numbers more than once.

| 5 | 10 | 12 | 16 | 18 | 28 | 32 | 42 | 48 | 80 |

(a) .... + ... = 80 [1]

(b) .... − .... = 8 [1]

(c) $\frac{1}{2}$ of .... = 24 [1]

(d) $\frac{3}{4}$ of 24 = ... [1]

(e) .... and .... are multiples of 10 [1]

(f) .... is a square number [1]

(g) 2 + 5 × 6 = ... [1]

(h) (21 − 13) × (14 − 8) = ... [1]

8

4 This table shows the singles with the highest sales in Britain.

Artist	Title	Year	Number Sold (millions)
The Beatles	She Loves You	1963	1·89
Queen	Bohemian Rhapsody	1975	2·13
Wings	Mull Of Kintyre	1977	2·05
Boney M	Brown Girl In The Ring	1978	1·99
Boney M	Mary's Boy Child	1978	1·79
John Travolta & Olivia Newton John	You're The One That I Want	1978	1·98
Frankie Goes To Hollywood	Relax	1983	1·91
Band Aid	Do They Know It's Christmas	1984	3·55
Robson & Jerome	Unchained Melody	1995	1·84
Elton John	Candle In The Wind	1997	4·86

(a) Which single sold the nearest to two million?

....[1]

(b) Write down the five largest sales in order, largest first.

.... [2]

     Largest

(c) There are three singles from 1978 in the top ten.

How many records did the three 1978 singles sell altogether?

(c) ....million [2]

(d) The Beatles' song "I Want To Hold Your Hand" sold
     one million seven hundred and fifty thousand singles.

     Write one million seven hundred and fifty thousand in figures.

     ....[1]

     6

5   This map shows the temperatures in some Italian cities one day in winter.

A map has been removed due to third party copyright restrictions

Details:

A map of italy showing the temperatures in some cities

(a) Which city is coldest?

                                                                    (a) ....[1]

(b) Complete these sentences.

     (i) Genoa is .... degrees warmer than Milan.   [1]

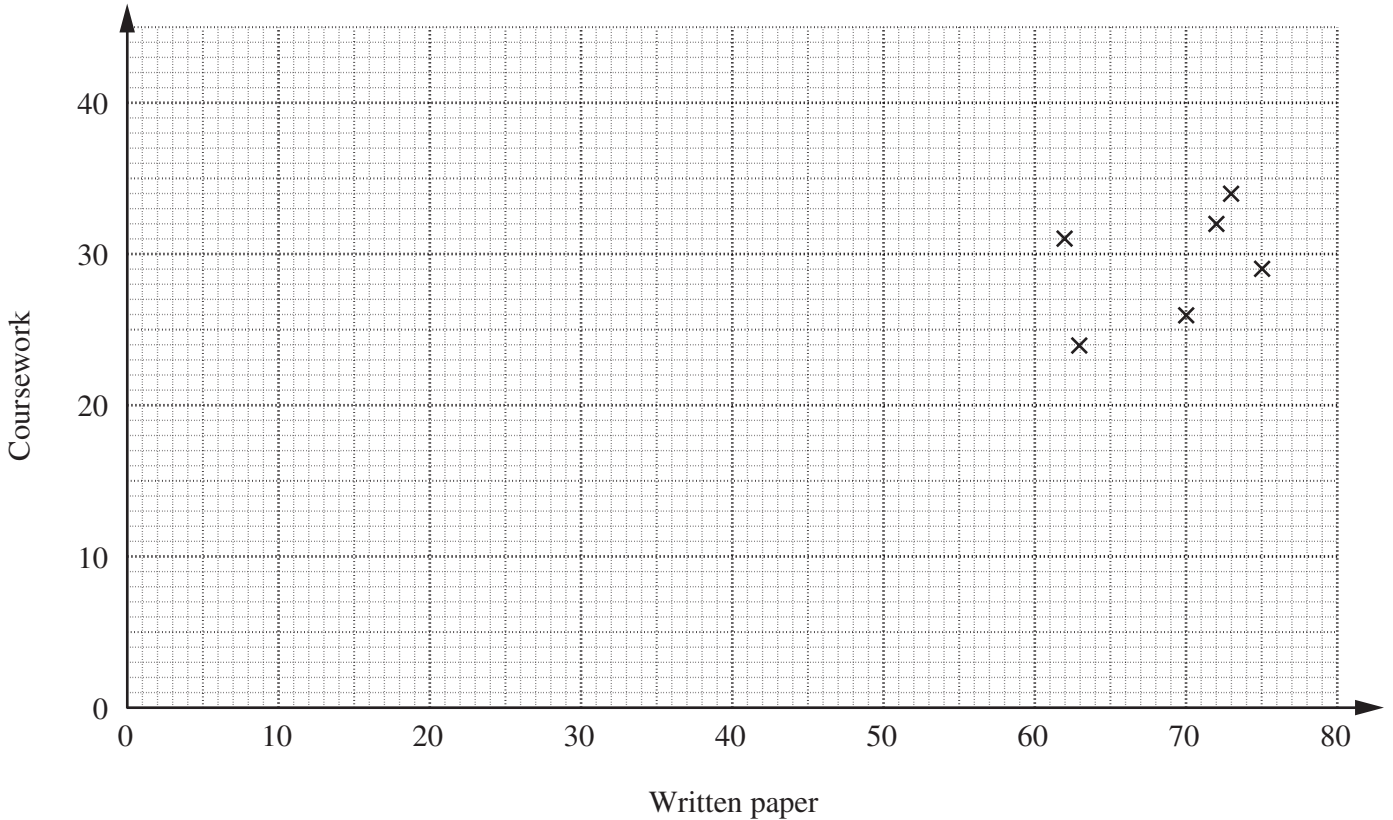   (ii) Genoa is .... degrees colder than Naples.   [1]

     3

[Turn over

6 An examination paper consists of a written paper and a piece of coursework.
The marks for 12 candidates are shown below.

Written paper	75	73	72	70	63	62	60	55	52	47	33	15
Coursework	29	34	32	26	24	31	25	19	20	18	17	5

The marks for the first six candidates have been plotted on the scatter diagram below.

(a) Complete the scatter diagram. [2]

(b) Describe the correlation.

....

....[1]

(c) (i) Draw a line of best fit on the scatter diagram. [1]

(ii) Sajid scored 22 on his coursework but was absent for
the written paper.

Use your line of best fit to estimate his mark on the
written paper.

(c)(ii) ....[1]

5

7 **(a)** Work out.

    (i) $0{\cdot}6 \times 0{\cdot}4$

                        (a)(i) ....[1]

    (ii) 5^3

                        (ii) ....[1]

(b) Write $\frac{7}{8}$ as a decimal.

                        (b) ....[2]

(c) Write 70 out of 200 as a percentage.

                        (c) ....% [2]

6

[Turn over

8 **(a)** Solve.

    (i) $x + 4{\cdot}5 = 7$

(a)(i) ....[1]

    (ii) $4x + 2 = 22$

(ii) ....[2]

    (iii) $\dfrac{x}{4} = 11$

(iii) ....[1]

(b)
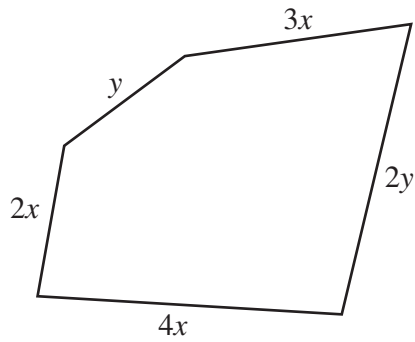
    Write down, as simply as possible, an expression for the perimeter of this pentagon.

(b) ....[2]

(c) Simplify.

      $7k + 2m - 5m + k$

(c) ....[2]

(d) Factorise.

      $10x - 15$

(d) ....[1]

9

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