Mathematics C (Graduated Assessment)   1966/2331A
MODULE M1 - SECTION A

Specimen Paper 2003

Candidates answer on the question paper.

Additional materials:

Geometrical Instruments
Tracing Paper (optional)

TIME 30 minutes

Candidate Name	Centre Number	Candidate Number

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.
- 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

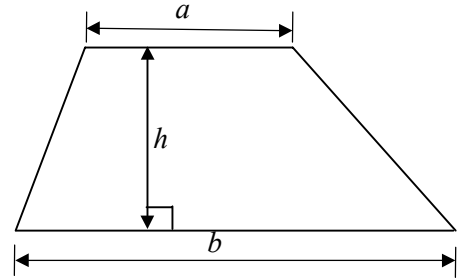- The number of marks is given in brackets [ ] at the end of each question or part question.
- The total number of marks for this section is 25.

For Examiners Use	
Section A	
Section B	
Total	

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

FORMULAE SHEET: FOUNDATION TIER

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

1 Find the missing numbers in each of these.

(a) 20 − 12 = ◇

(a) ◇ = _____ [1]

(b) 15 + ☐ = 32

(b) ☐ = _____ [1]

(c) ◯ − 16 = 7

(c) ◯ = _____ [1]

(d) ? ÷ 6 = 3

(d) ? = _____ [1]

4	

2 **(a)** In Year Seven of a school there are 69 boys and 82 girls.

How many pupils are there altogether in Year Seven?

(a) _____ [2]

(b) In Year Eight there are 19 more boys than girls.
There are 92 boys.

How many girls are there in Year Eight?

(b) _____ [2]

4	

3   Look at these numbers.

$$7 \quad 16 \quad 23 \quad 45 \quad 59 \quad 80$$

(a)   Which numbers are **even**?

(a)_____ [1]

(b)   Which numbers can be divided by 5 exactly?

(b)_____ [1]

2	

4   (a)   Shade $\dfrac{1}{2}$ of this shape.   [1]
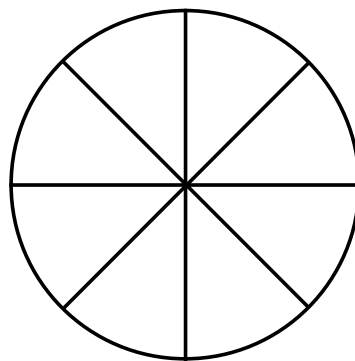
(b)   Lizzie earns £60 per week.
She spends $\dfrac{3}{4}$ of this on clothes.

How much does she spend on clothes per week?

(b) £_____[2]

3	

5 Shauna buys some sweets.
She pays with a £1 coin.
She is given these coins for her change.

    (a) How much change is Shauna given?

                                                    (a) _____ p [1]

    (b) Work out the cost of the sweets.

                                                    (b) _____ p [1]

2	

6 Here is the start of a number pattern.

               4,   11,   18,   25,   ...

    (a) What is the next number in the pattern?

                                                        (a) _____ [1]

    (b) Explain how you worked out your answer.

        _____

        _____ [1]

2	

7 Eggs are sold in boxes. Each box has six eggs.
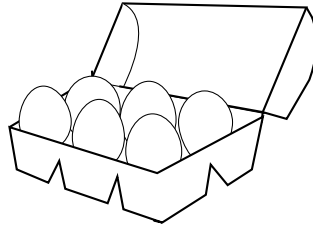
(a) Graham buys 7 boxes of eggs.

How many eggs is this?

(a)_____[1]

(b) Mary needs 30 eggs.

How many boxes must she buy?

(b)_____[1]

2	

8 **(a)** Which of these shapes has the larger area?
Give a reason for your answer.
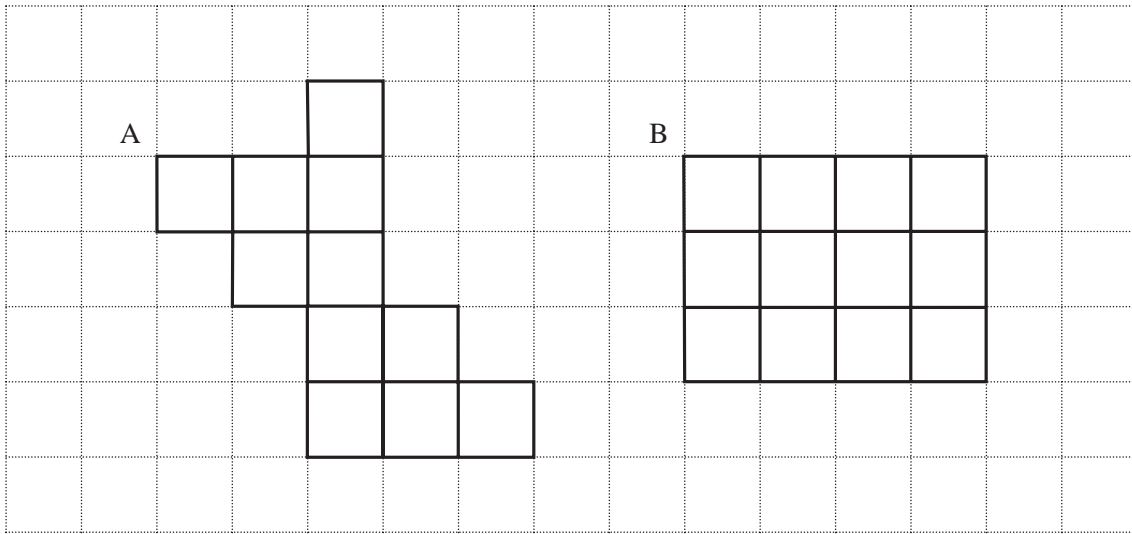
_____ because _____

_____ [2]

(b) Write down the area of this shape.
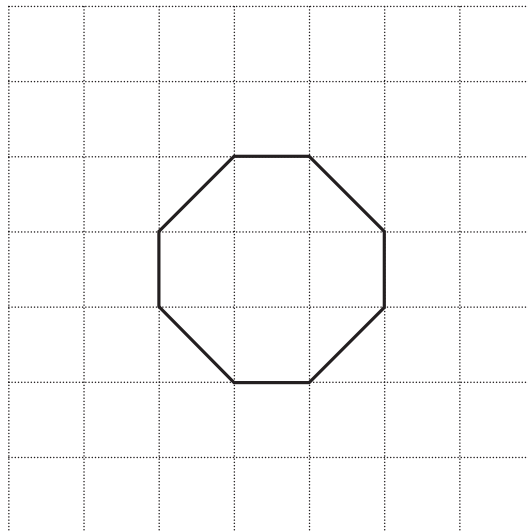
(b)_____squares [1]

3

9 This graph shows the number of pupils served by a school tuck shop during a week.
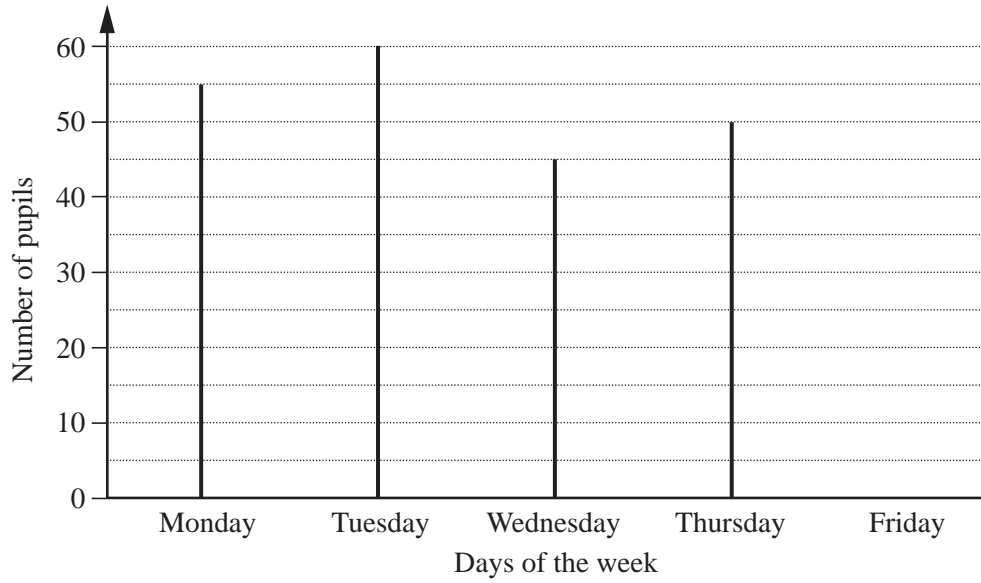
(a) How many pupils were served on Monday?

(a) _____ [1]

(b) On one day 45 pupils were served.

Which day was that?

(b) _____ [1]

(c) On Friday 35 pupils were served.

Draw a line on the graph to show this. [1]

3

Mathematics C (Graduated Assessment) 1966/2331B
MODULE M1 - SECTION B

Specimen Paper 2003

Candidates answer on the question paper.

Additional materials:

Geometrical Instruments
Tracing Paper (optional)
Electronic Calculator

TIME 30 minutes

Candidate Name	Centre Number	Candidate Number

**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.
- 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

- You are expected to use a calculator in Section B of this paper.
- 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 25.

For Examiners Use	
Section B	

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

10 Teresa uses her calculator to work out her shopping bill.
The calculator shows the answer in pounds.

Blunt Calculators

OFF ON
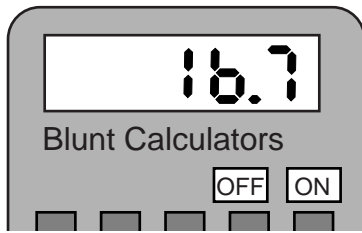
How much money does the calculator show?

£_____ [1]

1

11 This clock shows the time that assembly starts.
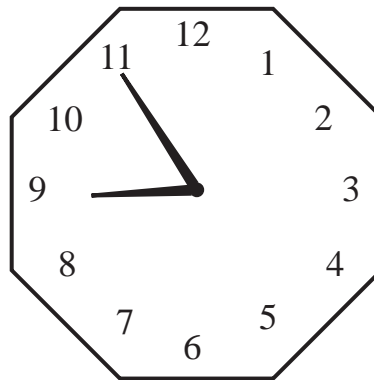
(a) At what time does assembly start?

(a)_____ [1]

(b) Assembly lasts 20 minutes.

At what time does assembly finish?

(b)_____ [1]

2

12 Colin has a bag of marbles.
Eight are blue and two are yellow.

He takes out one marble.

Look at these words.

    unlikely

                           certain

impossible   **likely**

Choose the best words to complete the sentences below.

(a) It is _____ that Colin will take out a blue marble. [1]

(b) It is _____ that Colin will take out a green marble. [1]

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2
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13 Maria has to do three jobs.
She has to clean the car (C),
mow the lawn (M),
and wash the dishes (W).

List all the possible orders in which she could do the jobs.
One way has been done for you.

You may not need to use all the lines

First	Second	Third
C	M	W

(You may not need to use all the lines)

[2]

2	

14 **(a)** Frank draws this shape.
All sides are 2 cm long.
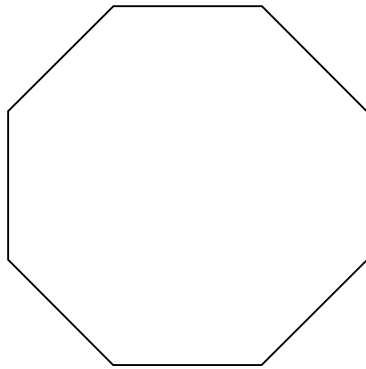
   (i) Write down the name of this shape.

                                                        (a)(i)_____ [1]

   (ii) Work out the perimeter of the shape.

                                                        (ii)_____cm [1]

(b) Peggy has drawn this shape.
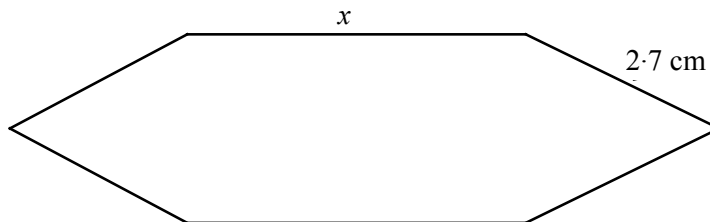
   (i) One of the sides is 2·7 cm long.
   Complete this sentence.

                        2·7 cm is the same as _____ mm   [1]

   (ii) Measure the length of the side *x*.

                                                        (ii) *x* =_____ [2]

                                                        [5]

15 **(a)** This table shows the lengths of five rivers.

River	Length (km)
Amazon	6570
Amur	4410
Missouri	4320
Nile	6695
Niger	4184

Write these lengths in order of size, starting with the longest.

[1]

(b) The River Amazon is 6570 kilometres long.

Write this length to the nearest 100 kilometres.

(b) [1]

(c) The River Missouri is 4320 kilometres long.

Write 4320 in words.

[1]

3

16
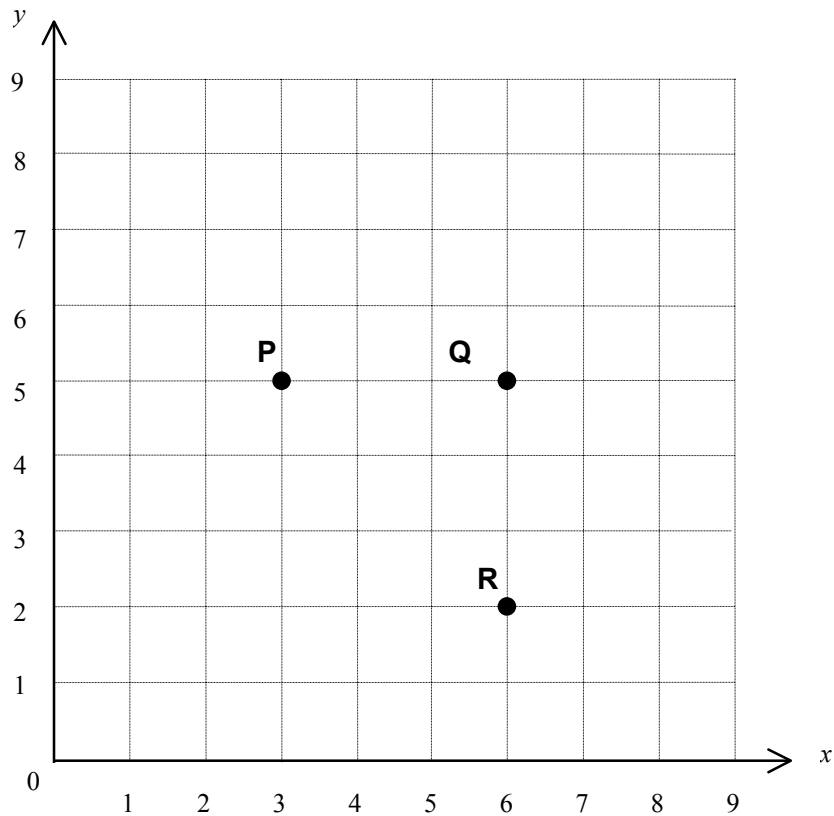
The points P, Q and R are three corners of a square.

(a) Write down the co-ordinates of P.

(a) (_____,_____) [1]

(b) Mark the fourth corner S.
Draw the square.

[1]

(c) Write down one fact that is true about all squares.

_____ [1]

3

17 Draw an enlargement of this shape.

Make each line 3 times as long. [3]
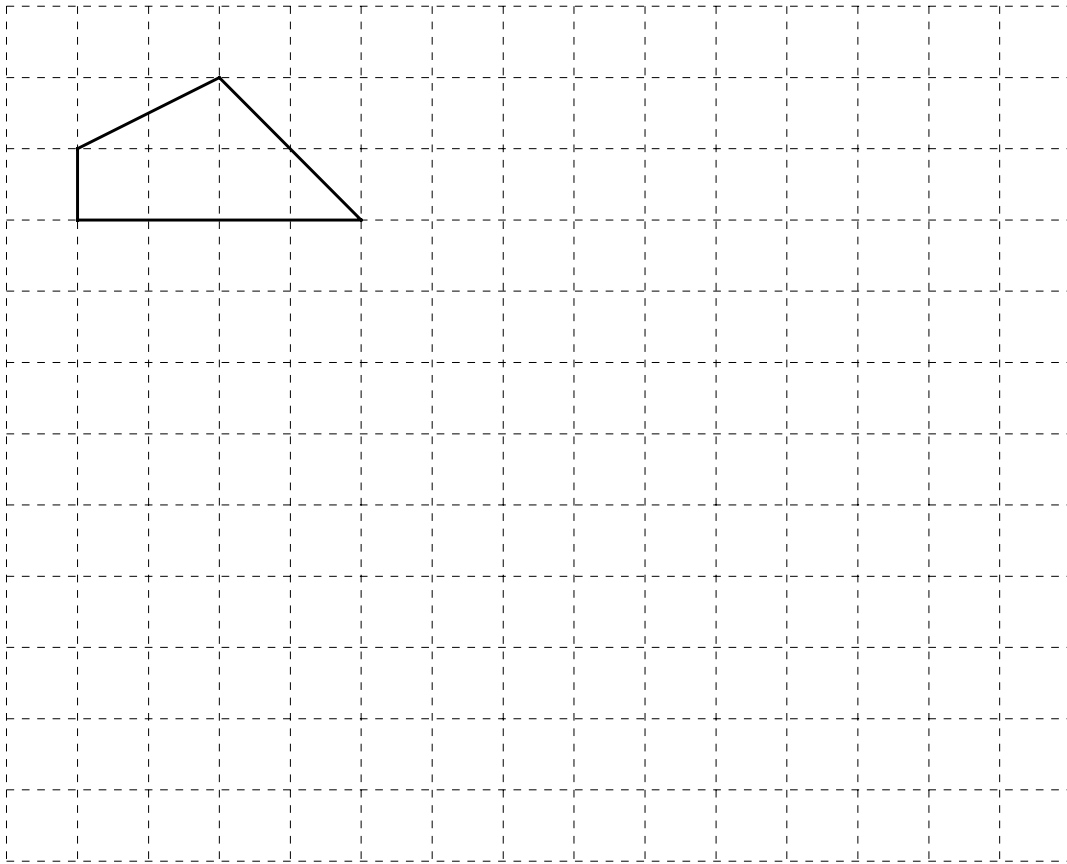

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3
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18 There are 250 people altogether in a cinema.

There are 140 children. They pay £2 each.
The rest are adults. They pay £3·50 each.

How much do the people pay altogether?

£ _____ [4]

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4
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Oxford Cambridge and RSA Examinations

General Certificate of Secondary Education

Mathematics C (Graduated Assessment)   1966/2331
MODULE M1

MARK SCHEME

Specimen Paper 2003

1	**(a)**	8	W1	
	(b)	17	W1	
	(c)	23	W1	
	(d)	18	W1	
			[4]	

2	**(a)**	151	W2	M1 69 + 82
	(b)	73	W2	M1 92 - 19
			[4]	

3	**(a)**	16, 80	W1	
	(b)	45, 80	W1	S/C W1 one correct answer in each part, no extras
			[2]	

4	**(a)**	Correct shading	W1	
	(b)	45	W2	W1 15 seen
			[3]	

5	**(a)**	39p	W1	
	(b)	61p	W1	
			[2]	

6	**(a)**	32	W1	
	(b)	Add on 7	W1	
			[2]	

7	**(a)**	42	W1	
	(b)	5	W1	
			[2]	

8	**(a)**	B,	W1	
		more squares	W1	
	(b)	7	W1	
			[3]	

9	**(a)**	55	W1	
	(b)	Wednesday	W1	
	(c)	Line	W1	
			[3]	

Section A total: 25

SECTION B

10	£16·70	W1	
		[1]	

11	**(a)**	8.55(am), o.e.	W1
	(b)	9.15(am), o.e.	W1
			[2]

12	**(a)**	Likely	W1
	(b)	Impossible	W1
			[2]

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13 All five orders   W2   Ignore repeats
                                    W1 3 correct orders
                           [2]

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14 **(a) (i)** Octagon   W1
        (ii) 16   W1
        (b) (i) 27   W1
        (ii) 4·5cm or 45mm   W2   W1 4.5 or 45
                                        [5]

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15 **(a)** 6695, 6570, 4410, 4320, 4184   W1   Accept names
        (b) 6600   W1
        (c) Four thousand three hundred
                 & twenty   W1
                                                 [3]

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16 **(a)** (3, 5)   W1
        (b) Square drawn   W1
        (c) One fact e.g. four right angles W1
                                                 [3]

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17 Correct enlargement   W3   W1   vertical **or** horizontal edge correct
                                     W1   each sloping line
                              [3]

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18 665   W4   W1   110 adults seen
               M1   their '110' × 3·5 (385) or 140 × 2 (280)
               M1   their 'adult total + child total'
        [4]

Section B total: 25

Total mark available: 50

MODULE: M1

Question	Topic	Syll ref	Mod Ref	22	0	6	14	7	3	2	2	4			Grades		
				N	Man A	nMan A	SSM	HD	UA1	UA2	UA3	Multi-s	Units	Acc	<G	G	F
1	Inverses	F2/5a	A1.2			4										4	
2	Addition/Subtraction	F2/3a, 3j	N1.3	4												4	
3	Types of number	F2/1j	N1.2	2											2		
4	Fractions	F2/3c	N1.5	3											1	2	
5	Money	F2/3a	N1.4	2											2		
6	Number patterns	F2/1j, 6a	A1.1			2					1					2	
7	Tables	F2/3g	N1.3	2											2	2	
8	Area	F3/4f, 1i	S1.4				3				1					3	
9	Graph	F4/4a, 5b	D1.3					3							3		
Section A				**13**		**6**	**3**	**3**			**2**				**8**	**17**	
10	Calc rounding	F2/4d	N1.4	1						1					1		
11	Time	F2/4a	N1.6	2											2		
12	Probability	F4/5g	D1.1					2								2	
13	Arrangements	F4/4e	D1.2					2								2	
14	Lengths	F3/4a, 4d	S1.3				5						1		1	4	
15	Numbers	F2/2a	N1.1	3												3	
16	Co-ordinates	F3/3e/1f	A1.3				3			1						3	
17	Enlargements	F3/3c	S1.6				3									3	
18	Money	F2/3a	N1.4	4					4			4				4	
Section B				**10**			**11**	**4**	**4**	**2**		**4**	**1**		**4**	**21**	**1**
	Total			**23**		**6**	**14**	**7**	**4**	**2**	**2**	**4**	**1**		**12**	**38**	