

Oxford Cambridge and RSA Examinations

General Certificate of Secondary Education

Mathematics C (Graduated Assessment) 1966/2341 (F) FOUNDATION TIER TERMINAL PAPER

MARK SCHEME

Specimen Paper 2003

SECTION A

1	(a) (b) (c) (d) (e)	(2, 6) Hexagon 4.2 - 4.4 cm 19 (cm) $23 \frac{1}{2} \text{ (cm}^2)$	W1 W1 W2 W2 W2 [8]	W1 for cm, W1 for $4.2 - 4.4$ M1 for $3+3+2+4+BC+FC$, A1 19 M1 – area attempted; A1 $23\frac{1}{2}$
2	(a) (b) (c) (d)	25 or 31 or 45 16 or 25 25 or 45 16 (and) 31	W1 W1 W1 W1 [4]	
3	(a) (b) (c)	4 10 29	W1 W1 W2 [4]	M1 4 + 6 + 5 + 4 + 3 + 7; A1 29
4	(a) (b) (c)(i) (ii) (d)(i) (ii)	Pattern correct 6, 7 and 9, 11 14 25 Explanation e.g. 12 + 2 = 14 Explanation e.g. Double 12 and add 1	W1 W1 W1 W1 W1 W1	
5	(a) (b)	24cm ³ Net correct	W2 W1 [3]	M1 3 × 2 × 4; A1 24
6	(a)(i) (ii) (b)	-5, -3, 0, 2, 4 9 1	W1 W1 W1 [3]	
7	(a) (b) (c)	$ \begin{array}{c} 6\\3\\5\frac{1}{2} \end{array} $	W1 W1 W2 [4]	M1 $2x = 11$

8	1400 6318 7718	W1 W3 W1 [5]	
9	Profit scale does not start at 0 Bars different widths	W1 W1 [2]	
10	Pie chart correct and labelled	W3	M1 24, 36, 12, 10, 18(%) or (86, 130, 43, 36, 65°) Or W2 3 sectors correct and labelled Or W2 4 or 5 sectors correct, not labelled.
11	35%	W2 [2]	Allow 1 for 70/200 seen
12 (a) (b)	$35000 \div 50 = 700$	W3 W3 [6]	M1 for 35 000 or 50 M1 their 35 000 ÷ 50 or 52 A1 700 M1 for 132 ÷ 1 hour 30 min Or M2 132 ÷ 1.5

Section A total: 50

SECTION B

13	(a) (b)	Correct reflection Correct diagram	W2 W3	W1 for reflection in incorrect line. W2 for 2 correct sectors W1 for 1 correct sector.
14	(a) (b)	(e.g.) add 4 (e.g.) double	W1 W1 [2]	
15		34	W2 [2]	M1 24; A1 34
16	(a) (b)	$\frac{1}{5}$ 15 squares shaded	W2 W1 [3]	W1 $\frac{4}{20}$
17		£5.04	W4	M1 3.57 or 10.9(0) Or M2 3.57 + 10.90 + 0.49 Or W3 14.96 A1 5.04, f.t. their 14.96
18	(a) (b)	43000 13664	W1 W2 [3]	M1 0.32 × 42700
19	(a) (b)(i) (ii) (c)	4 – 5.5 m Centimetres or millimetres Grams 2800	W2 W1 W1 W2 [6]	W1 for 3 – 6 m M1 3000 – their 200
20	(a) (b) (c)	Mark 0.5 – 1.5 cm from 0 Mark at 0 Explanation e.g. same number of odd and even	W1 W1 W1 [3]	

21	(a) (b)	\$7 £12 – £12.50	W1 W1	
			[2]	
22	(a)	150	W1	
	(b)	50 because e.g. sum of angles of a	W1	
		triangle is 180°	W1	
			[3]	
23	(a)	9x	W1	
	(b)	8e + 2f	W2	W1 for $4e + f + 4e + f$
	(c)	4ef	W1	
			[4]	
24	(a)	6 points plotted	W2	W1 4 or 5 correct
	(b)	e.g. Greater the height the greater the	3371	
		stride length	W1	
			[3]	
25		Straight line through $(0, -2)$, $(3, 7)$	W3	M1 2 correct points
				M2 3 correct points
			[3]	
26	(a)	£1500	W2	M1 300 or 1800 ÷ 6
-0	(b)	£370	W2	M1 1850 ÷ 5
	(-)		[4]	
27		380	W3	M1 π×11×11
<i>4 1</i>		300	VV J	Or W2 380.1()
			[3]	

Section B total: 50

Total mark available: 100

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Common to intermediate							3	5	2			3	3	16	3												3	3		4	3	16	32
Grade D*							2		2		2		3	6														3	3	4	3	13	22
Grade E							1	5		3		3		12	3											3	4					10	22
Grade F				4	3	3	1							11							2		4	3	2							11	22
Grade G	8	4	4	2										18	2	2	2	3	4	1		2										16	34
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Multistep								5											4										3			7	12
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UA2									2							2												1			1	4	9
IAU								5											4										3			7	12
Data			4						2	3				6										3				3				9	15
Shape	~				æ									11	S							2	4			3					Э	17	28
Other Alg				9										9		2	2								2				3			6	15
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Number		4				3		5			2	ε	3	20				3	4	1	2									4		14	34
Module ref	A1.3, S1.4, S1.5	N1.4, N4.5	D3.3	A2.1	\$5.4	N3.1	A5.1	N5.4	N4.3	D5.3	N5.5	N5.1	84.8	Section A total	S2.5, S5.7	A1.1	A2.2	N3.6	N1.4, N4.1	N5.1	N5.4	S2.1	S2.1, S2.2, S3.3	D2.1	A3.3	S4.1	A4.2	D6.2	A4.3	N6.3	S6.2	Section B total	Total
NC ref	F3/1f, 4a, 4f, 3e	F2/2a, 2b	F4/5b	F2/1j, 6a	F3/4d, 4g	F2/3q	F2/5e	F2/3d, 3k, 1b	F4/1g, 5b	F4/5b	F2/3m	F2/3h	F2/4a		F3/3a, 3b	F2/1j, 6a	F2/5a	F2/3g	F2/3a, 1b	F2/2a	F2/3m	F3/4a	F3/4a	F4/1h, 4c	F2/6c	F3/1i, 2a, 2c	F2/5f	F4/11, 4a	F2/6b	F2/3d	F3/4h, 1e		

Money calculation

Number pattern

Symmetry

13

Use formula

Fraction

16

15

Measurement units

19(bc)

Probability scale

20

21

Estimating length

Percentage

18(b)

19(a)

Rounding

18(a)

Conversion graph

Form expression

Angles

22 23 24 25 26 27

Scatter diagram

Straight line graph

Circles

Ratio

Misleading diagram

Calculation

Equations

% reduction

Pie chart

Estimation

12(a) 12(b)

Speed

Number properties

Number patterns

Bar chart

Temperature

Cuboid

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Topic

Question