CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

0580 MATHEMATICS

0580/11

Paper 1 (Paper 1 – Core), maximum raw mark 56

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Page 2	Mark Scheme	Syllabus	Paper
	Cambridge IGCSE – May/June 2015	0580	11

Abbreviations

cao	correct answer	only
Cau	concet answer	omy

dep dependent

FT follow through after error

isw ignore subsequent working

oe or equivalent

SC Special Case

nfww not from wrong working

soi seen or implied

	Qu	Answer	Mark	
1		Sunday	1	
2	(a)	4	1	
	(b)	16	1	
3	(a)	24 final answer	1	
	(b)	67.5	1	
4		2544	2	M1 for 1824 ÷ 38 [×53] oe
5		600	2	M1 for $\frac{3000 \times 5 \times 4}{100}$ oe If zero scored, SC1 for answer 3600
6		Correct triangle with correct pair of arcs	2	M1 for a triangle with one other side correct or for correct pair of arcs
7	(a)	circle	1	
	(b)	parallelogram	1	
8	(a)	$\begin{pmatrix} 9\\15 \end{pmatrix}$	1	
	(b)	$\begin{pmatrix} 11\\ -2 \end{pmatrix}$	1	
9	(a)	positive	1	
	(b)	More ice creams sold, more sun hats sold oe	1	
10		$24u^2w^3$ final answer	2	B1 for 2 correct elements in final answer
11		6.74[0]	2	M1 for $\frac{AB}{11.2} = \sin 37$ or better

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Pa	ge 3	Mark Sc	heme		Syllabus	Paper
	Cambridge IGCSE – May/June 2015			0580	11	
12	(a)	(0,5)	1			
	(b)	y = 3x + k	1	<i>k</i> must be a number, $\neq 5$		
13	(a)	<i>w</i> (3 <i>w</i> – 2)	1			
	(b)	$2x^2 + 8x - 35$ final answer	2	B1 for 2 terms correct in final answer or M1 for $2x^2 + 3x$ or $5x - 35$		
14		11	3	B1 for 2000[ml] or 0.005[litres] soi M1 for figs $2 \div (6 \times 2 \times 5 \times 3)$ or better or figs 111 seen		
15	(a)	4.8	2	M1 for $288 \div (12 \times 5)$	oe	
	(b)	1152	1			
16		$\frac{9}{5}$	B1	or $\frac{63}{35}$		
		their $\frac{9}{5} \times \frac{7}{3}$ or $\frac{9 \times 7}{5 \times 3}$	M1	or <i>their</i> $\frac{63}{35} \div \frac{15}{35}$ or equiprications with common of		on with
		$\frac{21}{5}$ or $4\frac{1}{5}$ cao	A1			
17	(a)	8.26×10^4	1			
	(b)	1.99×10^{2}	2	B1 for figs 199		
18		3	3	B1 for $15y - 10$ seen or M1 for $3y - 2 = 35 \div$	5	
				and M1 for $15y = 35 + a$ or $3y = their$ (
19		correct shaded region	3	B1 for ruled line 2cm fro	om and paralle	el to AD
				and B1 for arc centre B,	radius 4cm	
				and B1 for correct shade vertical line and <i>their</i> are		een their
20	(a) (i)	27, 38	2	B1 for 27 and B1FT for <i>their</i> 27 +	- 11	
	(ii)	Add the next odd number oe	1			
	(b)	1, 5, 9	1			

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Ра	ige 4	Mark Scheme			Syllabus Paper	Paper
		Cambridge IGCSE – May/June 2015			0580 11	11
21	(a) (b)	2 × 3 × 5 90	2 2	B1 for 2, 3, 5 as prime factors B1 for 90k or for listing multiples of each up to 90 or $2 \times 3^2 \times 5$		
22	(a)	7.5	2	M1 for $[10] \times \frac{6}{8}$ oe		
	(b)	12 cao	2	M1 for $9 \times \frac{8}{6}$ or 9	$ imes rac{10}{their}$ (a)	