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

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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Abbreviations

cao correct answer only

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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12 (a) $(0,5)$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
13 (a) $w(3w-2)$ 1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
(b) $2x^2 + 8x - 35$ final answer 2 B1 for 2 terms correct in finor or M1 for $2x^2 + 3x$ or $5x$	
14	
15 (a) 4.8 2 M1 for 288 ÷ (12 × 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 their $\frac{63}{35} \div \frac{15}{35}$ or equiva fractions with common denoted	
$\frac{21}{5}$ or $4\frac{1}{5}$ cao	
17 (a) 8.26×10^4	
(b) 1.99×10^2 2 B1 for figs 199	
18 3 B1 for $15y - 10$ seen or M1 for $3y - 2 = 35 \div 5$	
and M1 for $15y = 35 + their$ or $3y = their$ (35 -	
correct shaded region 3 B1 for ruled line 2cm from a	and parallel to AD
and B1 for arc centre B, rad	ius 4cm
and B1 for correct shaded revertical line and their arc ce	
20 (a) (i) 27, 38 2 B1 for 27 and B1FT for their 27 + 11	
(ii) Add the next odd number oe 1	
(b) 1, 5, 9 1	

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21	(a)	2 × 3 × 5	2	B1 for 2, 3, 5 as prime factors
	(b)	90	2	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 $9 \times \frac{8}{6}$ oe or $9 \times \frac{10}{their (a)}$