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Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

0444 MATHEMATICS (US)

0444/11 Paper 1, maximum raw mark 56

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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

	Answer	Mark	
1	Sunday	**1**	
2 (a)	4	**1**	
(b)	16	**1**	
3 (a)	24 final answer	**1**	
(b)	70	**1**	
4	360	**2**	**M1** for 2000 ÷ 50 [× 9] oe
5	600	**2**	**M1** for $\frac{3000\times5\times4}{100}$ 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	[x =] $2y + b$ oe	**2**	**M1** for $2y = x - b$ or $y + \frac{b}{2} = \frac{x}{2}$
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	1, 2, 3, 4, 5, 6, 7, 8 oe	**2**	**B1** for 1, 2, 3, 4, 5, 6, 7 oe
12 (a)	(0 , 5)	**1**	
(b)	$y = 3x + k$	**1**	k must be a number, $\neq$ 5
13 (a)	$w(3w - 2)$	**1**	
(b)	$2x^2 + 8x - 35$ final answer	**2**	**M1** for 2 terms correct or for $2x^2 + 3x$ or $5x - 35$

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14	1.8	**3**	**M2** for $\frac{10\times6\times2\times5\times3}{1000}$ oe or **M1** for 6×2×5×3 or better **and B1** for correct conversion to liters seen
15 (a)	5.5	**2**	**M1** for 330 ÷ (12 × 5) oe
(b)	1320	**1**	
16	$\frac{5}{21}$ cao	**3**	**B1** for $\frac{9}{5}$ or $\frac{5}{9}$ or $\frac{63}{35}$ or $\frac{35}{63}$ **and M1** for $\frac{3}{7}\times$ *their* $\frac{5}{9}$ or $\frac{15}{35}\div$ *their* $\frac{63}{35}$
17 (a)	8.26×10^4	**1**	
(b)	7.5×10^8	**2**	**B1** for correct answer **not** in scientific notation i.e. 750 000 000 or **B1** for answer $k\times10^8$ or 7.5×10^k
18	3	**3**	**B1** for $15y-10$ seen or **M1** for $3y-2=35\div5$ **and M1** for $15y=35+$ *their* (5×2) or $3y=$ *their* $(35\div5)+2$
19	144π or 14400π	**2**	**M1** for $4\times\pi\times6^2$ If zero scored, **SC1** for answer 576π
	correct units	**1**	Units **must** match their surface area i.e. 14400π cm^2 does not get this mark If **M0**, then **SC1** for cm^2
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**	
21 (a)	2 × 3 × 5	**2**	**B1** for 2, 3, 5 as prime factors
(b)	90	**2**	**B1** for $90k$ or a list of multiples or $2\times3^2\times5$

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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 $9 \times \frac{10}{\textit{their}\ \textbf{(a)}}$