

## 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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Abbrevi cao dep	ations correct answer only dependent		MWW. My Maths Barnes
цер ЕТ	follow through after arror		

## Abbreviations

cao cor	ect answer only
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- dep dependent
- $\mathbf{FT}$ follow through after error
- ignore subsequent working isw
- or equivalent oe
- Special Case SC
- nfww not from wrong working
- seen or implied soi

	Qu	Answer	Mark	
1		Sunday	1	
2	(a)	4	1	
	<b>(b)</b>	16	1	
3	(a)	24 final answer	1	
	<b>(b)</b>	67.5	1	
4		2544	2	<b>M1</b> 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>(b)</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	<b>B1</b> for 2 correct elements in final answer
11		6.74[0]	2	<b>M1</b> for $\frac{AB}{11.2} = \sin 37$ or better

Pa	ge 3	Mark So	cheme		Syllabus	PULD
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10	( )	(0.5)	-			
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	<b>B1</b> for 2 terms correct or <b>M1</b> for $2x^2 + 3x$		
14		11	3	<b>B1</b> for 2000[ml] or 0.005[litres] soi <b>M1</b> for figs $2 \div (6 \times 2 \times 5 \times 3)$ or better or figs 111 seen		
15	(a)	4.8	2	<b>M1</b> for $288 \div (12 \times 3)$	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 <i>f</i> fractions with commo		on with
		$\frac{21}{5}$ or $4\frac{1}{5}$ cao	A1			
17	(a)	$8.26 \times 10^4$	1			
	(b)	$1.99 \times 10^2$	2	<b>B1</b> for figs 199		
18		3	3	<b>B1</b> for $15y - 10$ seen or <b>M1</b> for $3y - 2 = 35$	5 ÷ 5	
				and M1 for $15y = 35$ or $3y = the$	+ their $(5 \times 2)$ ir $(35 \div 5) + 2$	
19		correct shaded region	3	<b>B1</b> for ruled line 2cm	from and parall	el to AD
				and B1 for arc centre	B, radius 4cm	
				and B1 for correct sh vertical line and <i>their</i>		veen their
20	(a) (i)	27, 38	2	<b>B1</b> for 27 <b>and B1FT</b> for <i>their</i> 2	7 + 11	
	(ii)	Add the next odd number oe	1			
	(b)	1, 5, 9	1			

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Pa	ge 4	Mark Scheme			Syllabus	P. Mar
<u> </u>		Cambridge IGCSE	– May/Ju	ine 2015	0580	11 '75C/0.
21	(a)	$2 \times 3 \times 5$	2	<b>B1</b> for 2, 3, 5 as prime f	factors	
	(b)	90	2	<b>B1</b> for 90 <i>k</i> or for listing multipl or $2 \times 3^2 \times 5$		
22	(a)	7.5	2	<b>M1</b> for $[10] \times \frac{6}{8}$ oe		
	(b)	12 cao	2	<b>M1</b> for $9 \times \frac{8}{6}$ or $9 \times \frac{8}{6}$	$9 \times \frac{10}{their (a)}$	