

Cambridge International Examinations Cambridge International General Certificate of Secondary Education

CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/12 May/June 2016

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Paper 1 (Core) MARK SCHEME Maximum Mark: 40

Published

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Abbrevi	ations	- Cloud
awrt	answers which round to	COM
cao	correct answer only	
den	dependent	

Abbreviations

awrt	answers which round to
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

seen or implied soi

Question		Answer	Mark	Part marks
1		$\frac{3}{4}$	2	B1 for 45 seen or $\frac{45}{60}$ or $\frac{15}{20}$ oe
2		One line only, horizontally through centre of shape	1	
3		Parallelogram	1	B0 for rhombus
		Trapezium	1	
		Equilateral triangle	1	B0 for triangle
4	(a)	9	1	Accept –9 or ±9
	(b)	2	1	
5	(a)	$\frac{30}{100}$ or equivalent fraction	1	
	(b)	90	1	
	(c)	51	2	M1 for $34 + 17$ oe seen or 0.15×340
6	(a)	55	2	M1 for 90 + 35 soi by 125
	(b)	70	2	M1 for 180 – 40 or better
7		$\frac{6}{35}$ or equivalent fraction	2	B1 for either correct denominator or correct numerator
8	(a)	3	1	
	(b)	8	2	M1 for $\frac{9}{3} + \frac{30}{6}$
	(c)	Lower and correct reason	1	

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Q	uestion	Answer	Mark	Par	t marks		- JUCICOM
9	(a)	$\frac{1}{6}$ oe	1				
	(b)	$\frac{5}{6}$ oe	1 FT	FT 1 – <i>their</i> (a), if 0 < <i>their</i> (a) < 1			
10	(a)	x(1-5x) final answer	1				
	(b)	$-\frac{4}{5}$ oe	3	B2 for $4 \div -5$ or M1 for $\frac{2 \times 5 - 3 \times 2}{-5}$			
11		[x =] 5 [y =] 1	1	If zero scored, SCI f and evaluation to fir			
12		1 2 3 4	2	B1 for 3 correct with or M1 for $1 \le n < 5$		rrect	
13	(a)	$\begin{pmatrix} 4 \\ -3 \end{pmatrix}$	2	B1 for each component of the second			
	(b)	Plot at (4, 3)	1				
14		x = 0	1	Accept y-axis			
		y = -1	1	If zero, SC1 for asyn graph	nptotes indic	ated on	
15	(a)	30	1				
	(b)	24	2	B1 for frequencies o	f 20 or 44 se	een	