

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/12

Paper 1 (Core) May/June 2016

MARK SCHEME
Maximum Mark: 40

Published

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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

soi seen or implied

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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Question		Answer	Mark	Part marks	
9	(a)	$\frac{1}{6}$ oe	1		
	(b)	$\frac{5}{6}$ oe	1 FT	FT $1 - their$ (a), if $0 < their$ (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 for correct substitution and evaluation to find the other variable	
12		1 2 3 4	2	B1 for 3 correct with only 1 incorrect or M1 for $1 \le n \le 5$	
13	(a)	$\begin{pmatrix} 4 \\ -3 \end{pmatrix}$	2	B1 for each component If zero scored, SCI for $\begin{pmatrix} -4 \\ 3 \end{pmatrix}$	
	(b)	Plot at (4, 3)	1		
14		x = 0	1	Accept y-axis	
		y = -1	1	If zero, SC1 for asymptotes indicated on graph	
15	(a)	30	1		
	(b)	24	2	B1 for frequencies of 20 or 44 seen	