

MARK SCHEME for the May/June 2014 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/12

Paper 1 (Core), maximum raw mark 40

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.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

Page 2	Mark Scheme	Syllabus	Paper
	IGCSE – May/June 2014	0607	12

1	(a)	70	1	
	(b)	17	2	M1 for 20 or 3 seen
	(c)	23 cao	1	
	(d)	3.07×10^5	1	
2		50 : 50	1	
3	(a)	$3x + 3y$ or $3(x + y)$	2	M1 for $x + 2x + 3y$
	(b)	18	2FT	M1 for <i>their</i> $3 \times 2 + \text{their } 3 \times 4$ or $8 + 4 + 6$ seen
4		UQ = 9 LQ = 6	2	B1 for each or SC1 if reversed or SC1 for a correctly ordering list
5	(a)	Correct line drawn	1	
	(b)	(1, -2)	1FT	FT <i>their (a)</i>
6		36 cm ³	2 1	M1 for $3 \times 4 \times 3$ oe
7		C D B A	2	M1 for three containers correctly ordered in the list or correctly converting all to a common unit or SC1 for ordered list in reverse
8	(a)	6 and 8	2	B1 for each in correct order
	(b)	$2x + 3$	2	B1 for $2x + j$ or $kx + 3$, j and $k \neq 0$
9	(a)	$1 \frac{1}{24}$ or $\frac{25}{24}$	2	M1 for multiple of 24 in both denominators
	(b)	$\frac{1}{4}$	2	M1 for $\frac{6}{24}$ or better seen
	(c)	$1 \frac{17}{24}$ or $\frac{41}{24}$	3	M2 for $2 - \frac{7}{24}$ or M1 for $\frac{27}{8}$ or $\frac{5}{3}$ and M1 for multiple of 24 in both denominators

Page 3	Mark Scheme	Syllabus	Paper
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10 (a)	$7p(q + 2 - t)$ Final answer	2	B1 for $7(pq + 2p - pt)$ or $p(7q + 14 - 7t)$
(b)	$8b - 32a$ or $8(b - 4a)$ Final answer	2	B1 for $8b$ or $-32a$ or M1 for $10b - 30a$ or $-2a - 2b$
11	Correct sketch	2	M1 for curve through two of $(-1, 1)$, $(0, 0)$, $(3, 2)$ or SCI for correct sketch of $f(x + 2)$ or $f(x) + 2$
12 (a)	300	1	
(b)	13	3	M2 for $\sqrt{5^2 + 12^2}$ or better, e.g. $\sqrt{169}$ or M1 for $[AC^2] = 5^2 + 12^2$ or 90° seen at B