MARK SCHEME for the May/June 2013 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 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

1	(a)	5400	1	
	(b)	5390	1	
2	(a)	4	1	
	(b)	4 or 5 or 20	1	
	(c)	5 or 20	1	
	(d)	5, 11 or 43	1	
3		6	1	
4	(a)	2	1	
	(b)	32	1	
	(c)	$\dfrac{1}{8}$	1	
5		$\dfrac{1}{5}$ 25% 0.3 $\dfrac{1}{3}$	2	**B1** for any 3 in correct order or for all in correct order but reversed.
6	(a)	correct reflection	1	
	(b)	correct image	2	**B1** correct rotation about another centre. or **SC1** anticlockwise rotation of 90°
7	(a)	Correctly drawn angle	1	± 2°
	(b)	252°	2	**M1** for 180 – 72 or better
8		Timi	1	
		Number of times the spinner is spun is greater. o.e.	1	
9	(a) (i)	100	1	
	(ii)	225	1	
	(b)	$7x + 3y$	2	**B1** for either $7x$ or $3y$ seen
	(c)	6	2	**M1** for 1 correct step
	(d)	x 2.5	2	**M1** for 1 correct step
	(e)	$[x] = 12$ $[y] = -17$	1 1	**SC1** for reverse order. or **M1** for correct equation in x or y.
10		21	3	**M1** for $\dfrac{3 \times 2}{2}$ or better and **M1** for ($k \times$ *their* Area triangle) + 9 Allow $k = 1$, but not 0.

11	(a)	(i)	9 to 9.5	1	
		(ii)	5.25 to 6.25	2	**M1** for upper quartile (12 to 12.5) **or** lower quartile (6.25 to 6.75)
	(b)		28 cao	1	
12			2	3	**M1** for $\dfrac{9}{6}$ or $\dfrac{6}{9}$ or $\dfrac{4}{6}$ or $\dfrac{6}{4}$ o.e. seen and **M1** $AD = 4 \times \dfrac{9}{6}$ o.e. or $4 \div \dfrac{6}{9}$ o.e. or better