

## **Cambridge International Examinations**

Cambridge International General Certificate of Secondary Education

## **CAMBRIDGE INTERNATIONAL MATHEMATICS**

0607/53

Paper 5 (Core) May/June 2016

MARK SCHEME Maximum Mark: 24



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 2016 series for most Cambridge IGCSE<sup>®</sup>, Cambridge International A and AS Level components and some Cambridge O Level components.

® IGCSE is the registered trademark of Cambridge International Examinations.



Page 2	Mark Scheme	Syllabus	Paper
	Cambridge IGCSE – May/June 2016	0607	53

## **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

Ou	lestions	Answer	Marks	Part Marks
Questions				1 at t ivial ks
1	(a)	30	1	
	<b>(b)</b>	6 1	2	<b>B1</b> for 1 row correct
		2 3		
		3 2		
	(c) (i)	7 11 12	2	<b>B1</b> for top number
	(*)	7 or 11 or 13	_	B1 for both rows
		1 7   7 1   11 1   13 1		
		7 1 11 1 13 1		
	(ii)	9	2	B1 for 9 B1 for 3 correct rows
		1 9		bi for 3 correct rows
		9 1		
		3 3		
	(iii)	12	2	<b>B1</b> for 12
	()	12	_	B1 for rows
		1   12   1		Condone 1 missing row
		2 6		Ignore extras
		6 2		
		3 4		
		4 3		
	( ) ( )	2 2 5 7 11 12 17 10	4	
2	(a) (i)	2, 3, 5, 7, 11, 13, 17, 19	1	C opportunity
	(ii)	Prime	1dep	dep on (a)(i)
	(b) (i)	[1], 4, 9, 16	1	C opportunity
	(ii)	Square	1dep	dep on (b)(i)
3		169 or 196	1	C opportunity

## www.xtrapapers.com

Page 3	Mark Scheme	Syllabus	Paper
	Cambridge IGCSE – May/June 2016	0607	53

Qı	uestions	Answer	Marks	Part Marks
4		26 22	1	
5	(a)	6	1	C opportunity
	<b>(b)</b>	18	1	
6	(a)	4 <i>x</i>	1	
	(b)	8 + 2x oe	1	
	(c)	8 + 2x = 4x  oe $[x = ]4$	1	C opportunity
7		2x and $2x + 4$ oe No solutions oe	1 1	
Cor	mmunicati	on in two of 2(a)(i), 2(b)(i), 3, 5(a) and 6(c)	1	