CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the October/November 2015 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/53 Paper 5 (Core), maximum raw 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.

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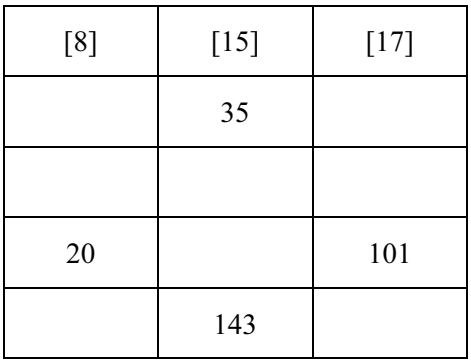
Abbreviations

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 (a)	13 17	**1**	
(b)	$13 = 2^2 + 3^2$	**1**	
	$17 = 1^2 + 4^2$	**1**	
(c)	$1^2 + 10^2$	**1**	
2 (a)	$49 + 576 = 625$ oe	**2**	**B1** for two correct squares
(b)		**4**	**B1** for 15 **B2** for second column (one for each cell) **B1** for third column
(c)	equal to the sum oe	**1**	**C** opportunity
(d)	29, 420	**1**	**C** opportunity
3 (a) (i)	8, 15, 17	**1**	
(ii)	$64 + 225 = 289$ oe	**2**	**B1** for one correct square
(b)		**5**	**B2** for one correct cell **B1** for each of the other three **C** opportunity
(c)	The square is twice the sum oe	**1**	

Question	Answer	Mark	Part Marks
(d)	$(2\sqrt{x})^2 = 4x$ $x - 1 + x + 1 = 2x$	**2**	**B1** for one statement seen or implied.
Communication seen in one of **2(c)**, **2(d)** or **3(b)**		**1**	