## **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**Cambridge International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2015 series

## 0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/52 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>(b)</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	<b>B1</b> for two correct squares		
	<b>(b)</b>			41		4	<b>B1</b> for 15
				61			<b>B2</b> for second column
			84	85			(one for each cell) <b>B1</b> for third column
		1.5					
		15	112				
	(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>(b)</b>	[8]	[15]		[17]		
			35			5	B2 for one correct cell
							B1 for each of the other three
		20			101		C opportunity
		20			101		
			143				
	(c)	The square is twice the sum oe		1			

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