MARK SCHEME for the October/November 2015 series

0607 CAMBRIDGE INTERNATIONAL MATHEMATICS

0607/52

Paper 5 (Core), maximum raw mark 24

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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

	Juestion		Ansv	wer		Mark	Part Marks
1	(a)	13 17				1	
	(b)	$13 = 2^2 + 3^2$				1	
		$17 = 1^2 + 4^2$				1	
	(c)	$1^2 + 10^2$					
2	(a)	49 + 576 = 625 oe				2	B1 for two correct squares
	(b)			41]	4	B1 for 15
				61			B2 for second column (one for each cell)
			84	85			B1 for third column
		15	112				
	(c)	equal to the sum oe				1	C opportunity
	(d)	29, 420				1	C opportunity
3	3 (a) (i) 8, 15, 17		1				
(ii) 6		64 + 225 = 289 oe				2	B1 for one correct square
	(b)	[8]	[15]	[[17]		
			35			5	B2 for one correct cell
							B1 for each of the other three
		20			101		C opportunity
			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	B1 for one staten	31 for one statement seen or implied.					
Communication seen in one of 2(c) , 2(d) or 3(b)									