

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

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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
nfw	not from wrong working
soi	seen or implied

Question	Answer	Mark	Part Marks																
1 (a) (b) (c)	13 17	1																	
	$13 = 2^2 + 3^2$	1																	
	$17 = 1^2 + 4^2$	1																	
	$1^2 + 10^2$	1																	
2 (a) (b) (c) (d)	$49 + 576 = 625$ oe	2	B1 for two correct squares B1 for 15 B2 for second column (one for each cell) B1 for third column																
	<table border="1"><tr><td></td><td></td><td>41</td></tr><tr><td></td><td></td><td>61</td></tr><tr><td></td><td>84</td><td>85</td></tr><tr><td>15</td><td>112</td><td></td></tr></table>				41			61		84	85	15	112		4				
				41															
				61															
		84		85															
	15	112																	
equal to the sum oe	1	C opportunity																	
29, 420	1	C opportunity																	
3 (a) (i) (ii) (b) (c)	8, 15, 17	1																	
	$64 + 225 = 289$ oe	2		B1 for one correct square B2 for one correct cell B1 for each of the other three C opportunity															
	<table border="1"><tr><td>[8]</td><td>[15]</td><td>[17]</td></tr><tr><td></td><td>35</td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>20</td><td></td><td>101</td></tr><tr><td></td><td>143</td><td></td></tr></table>	[8]			[15]	[17]		35					20		101		143		5
	[8]	[15]			[17]														
		35																	
20		101																	
	143																		
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 statement seen or implied.
Communication seen in one of 2(c) , 2(d) or 3(b)		1	