



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

Published

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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

Questions	Answer	Marks	Part Marks																		
1 (a)	30	1																			
(b)	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>6</td><td>1</td></tr> <tr><td>2</td><td>3</td></tr> <tr><td>3</td><td>2</td></tr> </table>	6	1	2	3	3	2	2	B1 for 1 row correct												
6	1																				
2	3																				
3	2																				
(c) (i)	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td colspan="2">7</td></tr> <tr><td>1</td><td>7</td></tr> <tr><td>7</td><td>1</td></tr> </table> or <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td colspan="2">11</td></tr> <tr><td>1</td><td>11</td></tr> <tr><td>11</td><td>1</td></tr> </table> or <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td colspan="2">13</td></tr> <tr><td>1</td><td>13</td></tr> <tr><td>13</td><td>1</td></tr> </table>	7		1	7	7	1	11		1	11	11	1	13		1	13	13	1	2	B1 for top number B1 for both rows
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(iii)	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td colspan="2">12</td></tr> <tr><td>1</td><td>12</td></tr> <tr><td>12</td><td>1</td></tr> <tr><td>2</td><td>6</td></tr> <tr><td>6</td><td>2</td></tr> <tr><td>3</td><td>4</td></tr> <tr><td>4</td><td>3</td></tr> </table>	12		1	12	12	1	2	6	6	2	3	4	4	3	2	B1 for 12 B1 for rows Condone 1 missing row Ignore extras				
12																					
1	12																				
12	1																				
2	6																				
6	2																				
3	4																				
4	3																				
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																		

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Questions	Answer	Marks	Part Marks
4	26 22	1	
5 (a)	6	1	C opportunity
(b)	18	1	
6 (a)	$4x$	1	C opportunity
(b)	$8 + 2x$ oe	1	
(c)	$8 + 2x = 4x$ oe	1	
	$[x =]4$	1	
7	$2x$ and $2x + 4$ oe	1	
	No solutions oe	1	
Communication in two of 2(a)(i), 2(b)(i), 3, 5(a) and 6(c)		1	