



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
International General Certificate of Secondary Education



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**CAMBRIDGE INTERNATIONAL MATHEMATICS**

**0607/01**

Paper 1 (Core)

**For Examination from 2010**

SPECIMEN MARK SCHEME

**45 minutes**

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**MAXIMUM MARK: 40**

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This document consists of **3** printed pages and **1** blank page.



## TYPES OF MARK

- **M** marks are given for a correct method.
- **A** marks are given for an accurate answer following a correct method.
- **B** marks are given for a correct statement or step.
- **D** marks are given for clear and appropriately accurate drawing.
- **P** marks are given for accurate plotting of points.
- **E** marks are given for correctly explaining or establishing a given result.
- **C** marks are given for clear communication (Papers 5 and 6 only).
- **R** marks are given for appropriate reasoning (Papers 5 and 6 only).

## ABBREVIATIONS

- ft Follow through
- oe Or equivalent
- soi Seen or implied
- www Without wrong working

1	11	B1	
2	85	B1	
3	-9	B1	
4	50	B1	
5	0.04	B1	
6	(a) $\sqrt{3}$	B1	
	(b) 11	B1	
	(c) 8	B1	
7	$\frac{6}{15} - \frac{1}{15}$	M1	
	$\frac{5}{15}$	M1	
	$\frac{1}{3}$	A1	
8	$\frac{3 \times 3 + 5}{5}$	M1	
	2.8	A1	
9	$3a(5 - c)$	B2	B1 for $3(5a - ac)$ or $a(15 - 3c)$
10	$3n - 6 = 2 - 3n$	M1	or better
	$3n + 3n = 2 + 6$	A1	
	$\frac{4}{3}$ oe	A1	
11	(a) $\frac{1}{5}$	B1	
	(b) $2q^4$	B1B1	
12	(a) (i) -1 to 2	B1	
	(ii) 0 to 2	B1	
	(b) Graph drawn 1 unit to left	B1	
13	$2m + 3n = 13$	M1	If fully correct, by any method, B3
	$9m - 3n = 9$ oe	A1	
	$m = 2, n = 3$	A1	

<b>14</b>	<b>(a)</b>	$\begin{pmatrix} 6 \\ -4 \end{pmatrix}$	B1 B1	
	<b>(b)</b>	$(-1, 1)$	B1	
<b>15</b>	<b>(a)</b>	<b>(i)</b>	3, 4, 5, 9	B1
		<b>(ii)</b>	2, 6, 7, 8	B1
		<b>(iii)</b>	5, 9	B1
	<b>(b)</b>	<b>(i)</b>	$\subset$	B1
		<b>(ii)</b>	$\cup$	B1
<b>16</b>	<b>(a)</b>	4	B1	
	<b>(b)</b>	$\frac{1}{2}$	B1	
	<b>(c)</b>	4	B1	
	<b>(d)</b>	$y = \frac{1}{2}x + 1$	B2	dependent on $y =$ , then B1 for $\frac{1}{2}$ or B1 for 1 (max 1)