
MATHEMATICS

1112/01

Paper 1

For Examination from 2012

SPECIMEN MARK SCHEME

1 hour

MAXIMUM MARK: 50

This document consists of **5** printed pages and **1** blank page.

Question	1		
Part	Mark	Answer	Further Information
(a) (i)	1	4.837	
(ii)	1	0.927	
(iii)	1	15060	
(b) (i)	1	276.52	
(ii)	1	280	
Total	5		

Question	2		
Part	Mark	Answer	Further Information
(a)	1	$3\frac{5}{6}$	
(b)	1	12	
(c) (i)	1	=	
(ii)	1	<	
Total	4		

Question	3		
Part	Mark	Answer	Further Information
(a)	1	148.5	
(b)	2	1.79	1 mark for 1.78 or 1.785... as answer
(c)	2	0.77	1 mark for 3.73 or 2.85 or 2.42 seen in working
Total	5		

Question	4		
Part	Mark	Answer	Further Information
(a) (i)	1	115(°)	
(ii)	1	73(°)	
(b)	2	42(°) corresponding angles OR TQ is parallel to SR	1 mark each
Total	4		

Question	5		
Part	Mark	Answer	Further Information
(a) (i)	1	5.4	
(ii)	1	2.456	
(b) (i)	1	752180	
(ii)	1	1.315	
(c)	1	reason explaining that multiplication by a number between 0 and 1 gives answer less than starting number	Allow 'it should be less than 342.' Do not allow 'it should be less.'
Total	5		

Question	6		
Part	Mark	Answer	Further Information
(a)	2	Correct tally marks $150 < h \leq 155$ / 1 $155 < h \leq 160$ /// 5 $160 < h \leq 165$ /// / 6 $165 < h \leq 170$ // 2 $170 < h \leq 175$ // 2 1, 5, 6, 2, 2 correct in frequency column	1 mark each Frequencies follow through their tallies.
(b)	2	Crosses correctly positioned [follow through]. Crosses joined with ruled line.	1 mark each
Total	4		

Question	7		
Part	Mark	Answer	Further Information
(a) (i)	1	25.84 (metres)	
(ii)	1	5600 (kilograms)	
(b)	1	140 – 180 (kilometres)	Accept any answer in given range
(c)	2	200 (millilitres)	1 mark for answer 0.2 or for 1600(mL) seen in working
Total	5		

Question	8		
Part	Mark	Answer	Further Information
(a)	1	$6a$	
(b)	1	$b(2b - 5)$	Or $(2b - 5)b$
(c) (i)	1	3	
(ii)	2	0.5 [OE]	1 mark for 2 as answer or $5x + 3x = 4$ seen or implied
Total	5		

Question	9												
Part	Mark	Answer	Further Information										
(a)	1	Table completed correctly <table border="1" data-bbox="437 378 868 510"> <tr> <td>x</td> <td>-1</td> <td>0</td> <td>2</td> <td>4</td> </tr> <tr> <td>y</td> <td>10</td> <td>8</td> <td>4</td> <td>0</td> </tr> </table>	x	-1	0	2	4	y	10	8	4	0	Both correct = 1 mark
x	-1	0	2	4									
y	10	8	4	0									
(b)	2	correct line drawn	1 mark for 3 points plotted correctly, follow through their table										
(c)	2	line passing through (1, 2) and (3, 8) drawn	1 for any line through (1, 2) or any line with gradient 3										
Total	5												

Question	10		
Part	Mark	Answer	Further Information
(a)	1	True indicated Reason: no sector for 6	In each part accept an equivalent reason In each part both the answer and the reason must be given
(b)	1	'Not enough information' indicated Reason: number of people not shown on chart	
(c)	1	False indicated, mode is 4.	
Total	3		

Question	11		
Part	Mark	Answer	Further Information
(a) (i)	1	3, 6	Both correct, accept reversed order
(ii)	1	30, 60	Both correct, accept reversed order
(b) (i)	1	5	
(ii)	1	16	
(iii)	1	1	
Total	5		

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