

CAMBRIDGE INTERNATIONAL MATHEMATICS

Paper 5 (Core) SPECIMEN MARK SCHEME 0607/05 For Examination from 2010

1 hour

MAXIMUM MARK: 24

This document consists of 4 printed pages.



[Turn over

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	(a)		$\frac{3}{24} + \frac{4}{24} = \frac{7}{24}$	AR1	(both accuracy & reasons are required)
	(b)		$\frac{2}{12} + \frac{3}{12} = \frac{5}{12}$	AR1	
2	(a)	(i)	$\frac{1}{3} + \frac{1}{6} = \frac{2}{6} + \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$	R2	
		(ii)	$\frac{1}{4} + \frac{1}{12} = \frac{3}{12} + \frac{1}{12} = \frac{4}{12} = \frac{1}{3}$		
		(iii)	$\frac{1}{5} + \frac{1}{20} = \frac{4}{20} + \frac{1}{20} = \frac{5}{20} = \frac{1}{4}$		
	(b)		$\frac{1}{5} = \frac{1}{6} + \frac{1}{30}$	B2	
			$\frac{1}{6} = \frac{1}{7} + \frac{1}{42}$ $\frac{1}{7} = \frac{1}{8} + \frac{1}{56}$		(B1 or two correct)
	(c)		$\frac{1}{99} = \frac{1}{100} + \frac{1}{9900}$	B1	
3	(a)		$2 \times \frac{1}{3} = 2\left(\frac{1}{4} + \frac{1}{12}\right)$		
			So $\frac{2}{3} = \frac{2}{4} + \frac{2}{12} = \frac{1}{2} + \frac{1}{6}$	R2	
	(b)	(i)	$\frac{2}{5} = 2\left(\frac{1}{6} + \frac{1}{30}\right) = \frac{1}{3} + \frac{1}{15}$	M1A1	
		(ii)	$\frac{2}{5} = 2\left(\frac{1}{6} + \frac{1}{30}\right) = \frac{1}{3} + \frac{1}{15}$ $\frac{2}{7} = 2\left(\frac{1}{8} + \frac{1}{56}\right) = \frac{1}{4} + \frac{1}{28}$ $\frac{10}{99} = 10\left(\frac{1}{100} + \frac{1}{9900}\right) = \frac{10}{100} + \frac{10}{9900}$	M1A1	
	(c)		$\frac{10}{99} = 10\left(\frac{1}{100} + \frac{1}{9900}\right) = \frac{10}{100} + \frac{10}{9900}$	M1	
			$=\frac{1}{10}+\frac{1}{990}$	A1	

Total: 30 marks scaled down to 24.

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