

Mark Scheme (Results) Summer 2010

GCSE

GCSE Mathematics (Modular) - 2381
Paper: 5381H/ 6B

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Publications Code UG024441

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5381H/6B				
Question	Working	Answer	Mark	Notes
1	(a) $1 - (0.25 + 0.20 + 0.10 + 0.30)$	0.15	2	M1 for $1 - (0.25 + 0.20 + 0.10 + 0.30)$ or $1 - 0.85$ or 15 seen A1 for 0.15 oe
	(b) 0.25×100	25	2	M1 for 0.25×100 or $100 \div 4$ oe A1 cao
2	(a)	positive	1	B1 for positive
	(b)	200 – 230	1	B1 for 200 – 230 inclusive
3		question + response boxes	2	1 st aspect: one question (e.g. how long does it take you to eat your breakfast?) (ignore other questions) 2 nd aspect: response list (at least 2), not overlapping 3 rd aspect: some mention of units (e.g. minutes) in either question or responses B2 for all 3 aspects (B1 for 1 or 2 aspects)

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4 (a)		(5), 17, 40, 56, 60	1	B1 for (5), 17, 40, 56, 60
(b)		cumulative frequency diagram	2	<p>B2 f.t. for 'correct' cumulative frequency graph ± 1sq dep on table with at most 1 addition error provided no part has a negative gradient (accept points joined by curve or line segments)</p> <p>(B1 for 4 or 5 'points' plotted at top of interval, dep on table with at most 1 addition error (need not be joined) ± 1 sq or 4 or 5 'points' plotted not at end but consistent within each interval and joined ± 1 sq)</p>
(c)		1.20–1.35	1	B1 for 1.20–1.35 inclusive or f.t. from their sensible cumulative frequency graph

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Question	Working	Answer	Mark	Notes
5	$\frac{5}{7} \times \frac{4}{6} + \frac{2}{7} \times \frac{1}{6} = \frac{20}{42} + \frac{2}{42}$	$\frac{22}{42}$	3	<p>M1 for $\frac{5}{7} \times \frac{4}{6}$ oe or $\frac{2}{7} \times \frac{1}{6}$ oe or a correct tree diagram</p> <p>with $\frac{5}{7}, \frac{4}{6}, \frac{2}{7}$ and $\frac{1}{6}$ in the correct places</p> <p>M1 dep for $\frac{5}{7} \times \frac{4}{6} + \frac{2}{7} \times \frac{1}{6}$</p> <p>A1 for $\frac{22}{42}$ oe</p> <p>SC: B1 for $\frac{22}{49}$ or $\frac{29}{49}$</p>

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