Mark Scheme (Results)

Summer 2010

GCSE

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

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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	1st aspect: one question (e.g. how long does it take you to eat your breakfast?) (ignore other questions) 2nd aspect: response list (at least 2), not overlapping 3rd aspect: some mention of units (e.g. minutes) in either question or responses B2 for all 3 aspects (B1 for 1 or 2 aspects)

Question	Working	Answer	Mark	Notes
4 (a)		(5), 17, 40, 56, 60	1	B1 for (5), 17, 40, 56, 60
(b)		cumulative frequency diagram	2	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) (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)
(c)		$1.20 - 1.35$	1	B1 for $1.20 - 1.35$ inclusive or f.t. from their sensible cumulative frequency graph

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