Mathematics 2381
Paper 5381F/05

November 2008

advancing learning, changing lives

Mark Scheme

5381F/05 – Section A				
Question	Working	Answer	Mark	Notes
1 (a)(i)		8	2	B1 for 8 or eight
(ii)		5		B1 for 5 or five
(b)		(pie chart symbols)	1	B1 cao
(c)		(pie chart symbols)	1	B1 (pie chart symbols) accept (pie chart symbols)
2 (a)		Volvo	1	B1 cao
(b)		Mazda	1	B1 cao
3 (a)			1	B1 for cross at ½ (allow ±2 mm tolerance)
(b)			1	B1 for cross between 3/4 and 1
(c)			1	B1 for cross at 0 (allow ±2 mm tolerance)
4		Overlay of pie chart – angles of 60º, 120º, 108º	3	B3 for fully correct labelled pie chart within guidelines (B2 for pie chart with correct angles within guidelines and no labels or for one angle drawn correctly within guidelines and labelled) (B1 for 1 angle drawn in guidelines and not labelled or for 1 correct angle in table or sight of 360÷60 or 72÷12 or 6)
5	$(0 \times 5) + (1 \times 9) + (2 \times 7) + (3 \times 4) + (4 \times 3) + (5 \times 2)$ $0 + 9 + 14 + 12 + 12 + 10$ $57 \div 30$	1.9	3	M1 for 0×5, 1×9, etc (min 3 attempts shown) may be implied by 0, 9 etc M1 (dep) for attempt to add and divide by 30 A1 cao (B2 sc for 2.06 – 2.1)

5381F/05 – Section B				
Question	Working	Answer	Mark	Notes
1 (a)		25	1	B1 cao
(b)		20	1	B1 cao
(c)	25-10	15	2	M1 for sight of 10 and 25 together A1 cao
2 (i) (ii)		C A	2	B1 for each correct answer
3	$\dfrac{2}{8}$	$\dfrac{2}{8}$	2	M1 for $\dfrac{x}{8}$ $(x < 8)$ or $\dfrac{2}{x}$ $(x > 2)$ A1 for $\dfrac{2}{8}$ o.e.
4		7 **12** **4** 23 **10** 16 **8** 34 3 8 2 13 20 **36** 14 **70**	3	B3 for fully correct table (B2 for 4 or 5 correct entries, B1 for 2 or 3 correct entries)
5 (a)		As the price increases the number of cameras sold decreases.	1	B1 for decrease in number sold with increase in price oe (accept negative correlation)
(b)		Line of best fit	1	B1 for line within given limits passing between (70, 40) & (70, 55) and between (80, 15) & (80, 30)
6		Overlapping intervals No time period No 6+ response box	2	B2 for two correct (B1 for one correct)