	Estimating the Mean L2 Mark Scheme							
	Time	Frequency	Midpoint	Midpoint × Frequency				
	60 - 80	53	70	3710				
1	81 - 100	91	90.5	8235.5	[0]			
	101 - 120	94	110.5	10387	[2]			
	121 - 140	62	130.5	8091				
	Total	300	Total	30423.5				
	30423.5 ÷ 300		[1]					
	101 mins (nea	rest whole n	umber)	[1]				
	1							
	Number of Pets	Frequency	Midpoint	Midpoint × Frequency				
	0	7	0	0				
	1-2	12	1.5	18				
2	3 - 6	4	4.5	18				
	7 - 9	2	8	16				
	Total	25	Total	52				
	52 ÷ 25		[1]					
	2 (nearest who	ole number)		[1]				
	Number of Outpatients	Frequency	Midpoint	$Midpoint \times Frequency$	[2]			
	0 — 99	116	49.5	5742				
3	100 - 199	112	149.5	16744				
	200 – 299	77	249.5	19211.5				
	300 - 399	60	349.5	20970				
	Total	365	Total	62667.5				
	62667.5 ÷ 365				[1]			
	172 (nearest w	hole numbe	r)	[1]				
	1							

	Age	Frequency	Midpoint	$\text{Midpoint} \times \text{Frequency}$				
	0 - 17	155	8.5	1317.5				
4	18 - 30	305	24	7320	[2]			
-	31 - 64	239	47.5	11352.5	[2]			
	65 — 75	83	70	5810				
	Total	782	Total	25800				
	25800 ÷ 782			[1]				
	33 (nearest w	hole number	.)	[1]				
	Number of Visitors	Frequency	Midpoint	Midpoint × Frequency				
	0 - 19	2	9.5	19				
	20 - 39	5	29.5	147.5				
5	40 - 59	8	49.5	396	[2]			
	60 — 79	11	69.5	764.5				
	80 - 100	4	90	360				
	Total	30	Total	1687				
	1687 ÷ 30			[1]				
	56 (nearest w	hole number	-)		[1]			
	1							
	Number of items cold	Frequency	Midpoint	Midpoint × Frequency				
	Number of items sold	rioquonoj	maponit					
	0 - 10	2	5	10				
	0 - 10 11 - 20	2	5	10				
6(a)	0 - 10 11 - 20 21 - 30	2 10 27	5 15.5 25.5	10 155 688.5	[2]			
6(a)	0 - 10 11 - 20 21 - 30 31 - 40	2 10 27 7	5 15.5 25.5 35.5	10 155 688.5 248.5	[2]			
6(a)	0 - 10 11 - 20 21 - 30 31 - 40 41 - 50	2 10 27 7 6	5 15.5 25.5 35.5 45.5	10 155 688.5 248.5 273	[2]			
6(a)	0 - 10           11 - 20           21 - 30           31 - 40           41 - 50           Total	2 10 27 7 6 52	5 15.5 25.5 35.5 45.5 Total	10 155 688.5 248.5 273 1375	[2]			
6(a)	$\begin{array}{c} 0 - 10 \\ 0 - 10 \\ 11 - 20 \\ 21 - 30 \\ 31 - 40 \\ 41 - 50 \\ \hline \text{Total} \\ \hline 1375 \div 52 \end{array}$	2 10 27 7 6 52	5 15.5 25.5 35.5 45.5 Total	10 155 688.5 248.5 273 1375	[2]			
6(a)	$ \begin{array}{c} 0 - 10 \\ 11 - 20 \\ 21 - 30 \\ 31 - 40 \\ 41 - 50 \\ \hline \hline 1375 \div 52 \\ \hline 26 items sold \end{array} $	2 10 27 7 6 52 per week (no	5 15.5 25.5 35.5 45.5 Total	10 155 688.5 248.5 273 1375	[2] [1] [1]			
6(a) 6(b)	$\begin{array}{c} 0 - 10 \\ 0 - 10 \\ 11 - 20 \\ 21 - 30 \\ 31 - 40 \\ 41 - 50 \\ \hline \\ \hline \\ 1375 \div 52 \\ \hline \\ 26 \text{ items sold} \\ 1375 \times 25 \end{array}$	2 10 27 7 6 52 per week (no	5 15.5 25.5 35.5 45.5 Total	10 155 688.5 248.5 273 1375 number)	<ul> <li>[2]</li> <li>[1]</li> <li>[1]</li> <li>[1] Allow process to multiply average number of sales a week by no. of weeks and 25</li> </ul>			
6(a) 6(b)	0 - 10 $11 - 20$ $21 - 30$ $31 - 40$ $41 - 50$ Total         1375 ÷ 52         26 items sold         1375 × 25         £34375	2 10 27 7 6 52 per week (ne	5 15.5 25.5 35.5 45.5 Total	10 155 6688.5 248.5 273 1375 number)	<ul> <li>[2]</li> <li>[1]</li> <li>[1] Allow process to multiply average number of sales a week by no. of weeks and 25</li> <li>[1] Allow answer in range 34370 – 34380</li> </ul>			