П	Т			П	
П		3	c		
П	I.	•	3	Ш	

Lite GCSE Maths		Name:					
Stem Leaf Diagrams		Class:					
Author:							
Date:							
Time:	36						
Marks:	32						
Comments:							

Q1.	-	The s	stem-	and-le	eaf diag	gram sh	nows th	ne num	ber of	sweet	ts in ea	ch of 2	5 bags.		
	3		8	8	8	9	9								
	4		0	2	2	3	4	6	7	9	9	9	9		
	5		0	0	1	1	1	2	3	6	7				
								K	ey 3 	8 гер	resent	s 38 sv	veets		
	(a)	Cal	culat	e the r	ange o	of the n	umber	of swe	ets in t	he ba	gs.				
								Ansı	wer						(2)
	(b)	Wri	te do	wn the	e mode	of the	numbe	er of sv	veets i	n the I	oags.				
								Ansv	wer						(1)
	(c)	Two	o extr	ra bag	s each	contai	n 51 s\	weets.							
	` ,	Th	is info	ormatio	on is ad	dded to	the st	em-and		_					
	(i) State, with a reason, whether the range has changed.														
															(1)
		(ii)	Sta	ate, wi	th a rea	ason, w	/hether	the m	ode ha	s cha	nged.				
														(Total 5 ma	(1) arks)
														•	,
Q2.					a one h minute				xamin	ation a	are sho	wn			
	1110	40		37	52	43	48	60			44	**11.			
		58 43		60 52	44 50	33 48	47 60	54 37			60				

(a)	Construct an ordered stem-and-leaf diagram for the results. Remember to include a key.	
4.		(4)
(b)	(i) Write down the mode of the data.	
	Answerminutes	(1)
	(ii) Give a reason why this value occurred so often.	
		(1)
(c)	The data is shown in a box plot.	
	30 40 50 60	
	Actual time (minutes)	
	(i) Write down the median.	
	Answerminutes	(1)

(ii)	Wo	rk out the	inter-qu	artile rar	nge.						
					Answe	er		.minutes	(2) (Total 9 marks)		
			Кеу:	2	7	means an	of 15 members	1	inton club.		
2	2	7 0 1 3	8								
3	,	0	2	4	8						
4	۱ ۱	1	2	3	3	4	6				
ءِ	5	3	6								
6	i	2									
Wha	What is the median age of the members?										

Q3.

	What is the median age of the members?	(a)
(1	Answer years	
	What is the range of the ages?	(b)
(1 (Total 2 marks	Answer years	

Q4. The ordered stem and leaf diagram shows the number of cameras sold each day, over a period of 20 days.

 Key
 1
 2
 represents 12 cameras

 0
 4
 8
 9

 1
 1
 2
 2
 2
 6
 7
 9
 9

 2
 0
 3
 5
 8
 8
 8

 3
 1
 2
 5
 9
 9

Doe	s the r	lay 28 ca median ii show yo	ncrease	e, dec		stay th	ne	same?	
									otal 3 marks)
seas	son. he play	nders coa yers sco s the dat	red at le a in a s	east o tem a	nce. nd leaf c	diagram	٦.	nders the players in her squad scored in a	
			Ke	у	2	7		represents 27 rounders scored	
	0	1	1	2	7				
	1	1 2 3	5	5					
	2	3	7						
	3	6							
	4	0							
	5	0	9						
(a)	Wha	it is the r	ange of	the d	lata?				
						Ansv	мe	r	(1)
(b)	How	many pl	layers a	re the	ere in the	squad	ł? 		(1)
						Ansv	ve.	ır	

Q5.

(1)

	(C)		e m	edian i	ber	oi roun					
	(d)	Calculate the mean number of rounders scored.									
							Answer			 (3) (Total 6 marks)	
Q6.							ntre is re n-and-lea		for 20 days.		
								•	2 represents 52 visitors		
		5	2	3	6	8	9				
		6	0	1	2	3 6	5	7	8		
			0		4	6	8	9			
		8	1	3							
	(a)	What v	vas the	greate	st numl	ber of vi			den centre on one da		
							Answer			(1)	
	(b)								en centre.		
										(2) (Total 3 marks)	

Sh							er students were late during a term. stem and leaf diagram.
				Key	2	7	represents late 26 times
	0	1	1	2	6		
	1	2	4	4			
	2	3	6				
	3	2					
	4	0	9				
	5	0					
		ts were i			nes stude	nts we	re late for the whole form.

Answer

Q7.

(Total 4 marks)