Name:

GCSE (1 – 9)

Stem and Leaf Diagrams

Instructions

- Use **black** ink or ball-point pen.
- Answer all Questions.
- Answer the Questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.

Information

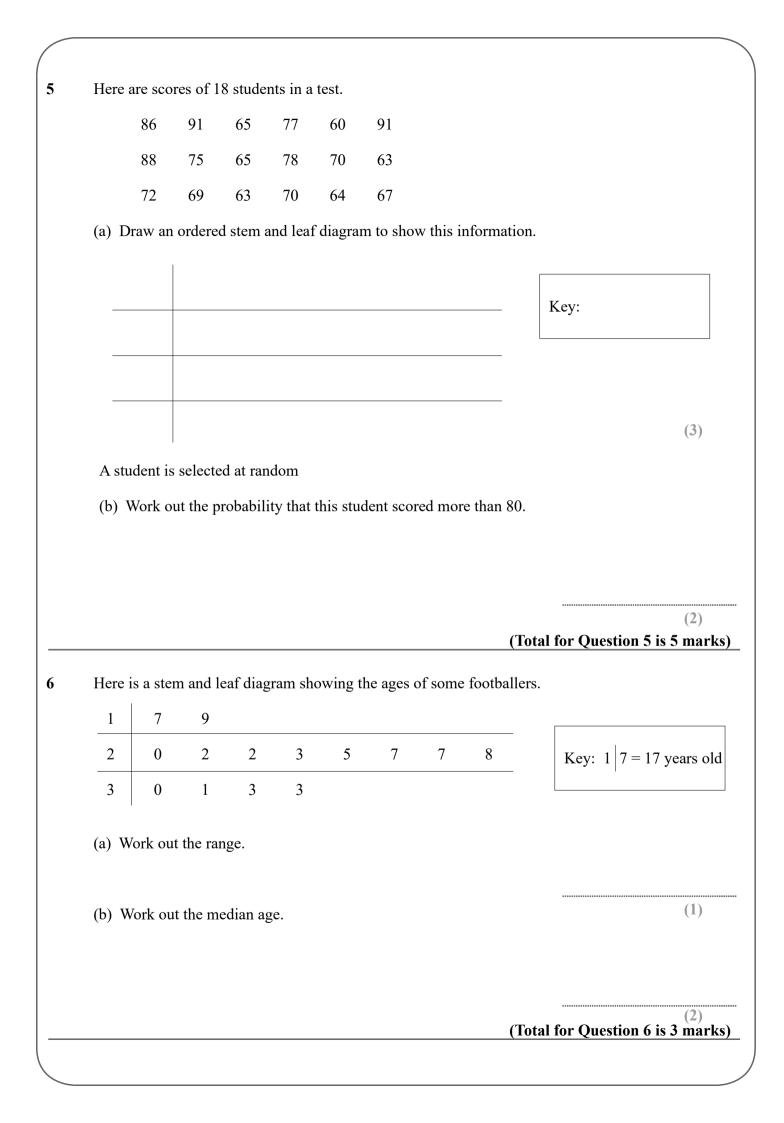
- The marks for each Question are shown in brackets
- use this as a guide as to how much time to spend on each Question.

Advice

- Read each Question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every Question.
- Check your answers if you have time at the end

35	41	47	32	45						
40	52	33	55	41						
29	38	42	48	38						
Draw an ord	lered ste	em and	leaf dia	igram to	o show t	his info	ormation	n.		
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54 68	65 48	68 51	49 59	72 66	74 71	56 63	57 60	66 53	62 70	<u>on 1 is 3 m</u>

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18	0	4	5									
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Here a		heights				100			40.			
	190	168	186	186	158	190	165	184	185			
	183	154	189	153	183	159	167	177	162			



						(Tot	al for Questic	(2) on 7 is 5 mar
(b) `	Work ou	it the m	nedian r	nass.				
<i>(</i> -)		-						(3)
							Key:	
(a) D	raw an	ordered	l stem a	and leaf	diagram to show the	is information.		
	3.5	4.4	1.8	1.8	2.3			
	1.6	3.1	2.4	2.9	1.5			
	2.9	3.5	2.1	3.8	3.7			

Here are the speeds, in mph, of 20 cars.											
	55	70	67	58	69	51	43	63	49	48	
	65	52	45	42	47	50	47	64	63	58	

(a) Draw an ordered stem and leaf diagram to show this information. You must include a key.

(3)

(b) Work out the median speed.

.... mph

(2)

(Total for Question 8 is 5 marks)

.....

8

Here are the ages of a company's employees.

31	24	43	52	19	59	29
55	51	38	20	38	36	26
31	38	23	29	25	55	26

(a) Draw an ordered stem and leaf diagram to show this information.
You must include a key. (3)

One of the employees is selected at random (b) Find the probability that they are younger than 30.

> (2) (Total for Question 9 is 5 marks)

9

Here are scores of some students in a test.

51	53	49	88	62
74	68	53	67	51
59	65	42	43	59
63	62	40	67	59

Draw an ordered stem and leaf diagram to show this information. (a) (3) You must include a key.

(b) Work out the median score

Another student sits the test and scores 80.

Boris says: "This means the median will increase."

(c) Is Boris correct? You must explain your answer.

> (1) (Total for Question 10 is 6 marks)

(2)

10