1. Jake and Sarah each played a computer game six times.

Their scores for each game are shown below.

 Jake
 10
 9
 8
 11
 12
 8
 12-8=4

 Sarah
 2
 10
 7
 14
 4
 10
 14-2=12

(a) Who had the most consistent scores, Jake or Sarah? You must give a reason for your answer.

Jane, recouse ne nod the smallest range

Jake played a different game 20 times.

The stem and leaf diagram shows information about his scores.

0	9					
1	2	3	3	4	5	
2	5	6	6	6	6	7
3	1	3	4	6	8	
4	0	2	9			

Key 1 | 2 represents 12 points

Jake said his modal score was 6 points because 6 occurs most often in the diagram.

(b) Is Jake correct?
You must explain your answer.

No, because Sake has not used the stem of the diagram, so modal score is actually 26

(Total for Question is 2 marks)

(3)

(2)

2. Here are the marks 20 students got in a French test.

76-	82	_84_	69	80	64	70	81	75	91
87	67	80	70	94	76	81	69	71	77

(a) Show this information in a stem and leaf diagram.

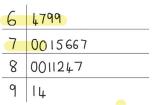
() Stem→	Norder Tens	ed diagram:	
	6	9479	_
	7	6050617	
	8	2401701	- (î
•	q	114	- (

6	4799	
7	0015667	
8	0011247	
9	14	-

One of these students is going to be chosen at random.

The pass mark in the French test is 71

Omar writes,



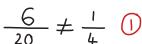
The probability that this student failed the French test is $\frac{1}{4}$

Omar is wrong.

(had a Score less than 71)

(b) Explain why.

6 Students failed $\frac{6}{20} \neq \frac{1}{4}$ $\frac{1}{1}$



(Total for Question is 5 marks)

3.	The stem an	d leai	diagram	below	gives	ınıorma	tion abo	out the a	iges of	people	ın a	social	C
	3	1	4	5									

3	1	4	5			
4	0	2	2	5	6	
5	0	1	7	7	8	9
6	3	4	5	9		
7	0	4				

Key: 4|2 represents 42 years

Find the range of these ages.

31

74/

43 / years

(Total for Question is 2 marks)

The table shows information about the heights, in cm, of a group of Year 9 girls.

least height	150 cm
median	165 cm
greatest height	170 cm

Range = 170cm - 150cm - 20cm

This stem and leaf diagram shows information about the heights, in cm, of a group of 15 Year 9 boys.

median = 168cm

Mediun position = 15t1 = 8 range = 182cm - 158cm = 24cm

Key: 15 | 8 represents 158 cm

median and large Compare the distribution of the heights of the girls with the distribution of the heights of the boys.

Median height for girls is less than median height for boys
(165 < 168)

Range for girls is less than the range for boys (2022u)

(Total for Question is 3 marks)