1. 3. Here are the ages, in years, of 15 students.

Show this information in an ordered stem and leaf diagram.

1	7889
2	0012359
3	377
4	2

(3 marks)

2. Jo measured the times in seconds it took 18 students to run 400 m. Here are the times.

671	78	79	98	,96	103
75	,85	94	92'	.61	.80
<i>\$2</i> ^	86	90	95	90	89

(a) Draw an ordered stem and leaf diagram to show this information.

6	17
7	5 8 9
8	025(69)
9	0024568
10	3

Key: 
$$6/1 = 61$$
 second?

(b) Work out the median.

$$\frac{86+89}{2}$$
 - 87.5

(5 marks)

**(3)** 

3. Here are the speeds, in miles per hour, of 16 cars.

Draw an ordered stem and leaf diagram for these speeds.

2	9						
3	1	3	5	6	9		_
4	2	3	3	4	6	8	9
5	2	4	5				

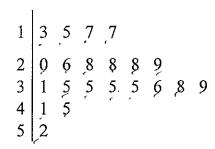
(4 marks)

4. Here are some people's ages in years.

In the space below, draw an ordered stem and leaf diagram to show these ages.

(4 marks)

5. Jim did a survey on the lengths of caterpillars he found on a field trip. Information about the lengths is given in the stem and leaf diagram.



Key: 5|2 means 5.2 cm

Work out the median.

31	cm
	(2 marks)

6. Here are the times, in minutes, taken to solve a puzzle.

(a) In the space below, draw a stem and leaf diagram to show these times.

Key: 0/5 = 5 minutes

(3)

(b) Find the median time to solve this puzzle.

.....) 5 .... mins

**(2)** 

<u>(5marks)</u>

Jan measures the heights, in millimetres, of 20 plants in her greenhouse. 7. Here are her results.

178	189	147	147	166
167	153	171	164	158
189	166	165	185	1.52
147	158	148	181	172

Complete the stem and leaf diagram to show this information.

Stem	Leaf	
14	7778	_
15	1,2 3 5 8 8	- key
16	45667	14/7 = 147 mm
17	128	_
18	9 9	_

(4 marks)

8. Anil counted the number of letters in each of 30 sentences in a newspaper.

Anil showed his results in a stem and leaf diagram.

stands for 41 letters Key 4 [1]

Write down the number of sentences with 36 letters.

**(1)** 

(b) Work out the range. 45 - 8

**(1)** 

(c) Work out the median.

27

**(2)** (4 marks) 9. Here are the weights, in kilograms, of 15 parcels.

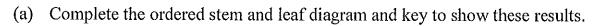
Draw a stem and leaf diagram to show this information.

0	5 6 7	Ney
1	011257	6/5=0,5kg
2	0016	0/3 0/2-5
3	3 5	

(Total 3 marks)

10.	Janine recorded the times, in seconds, for each of 15 people to do a puzzle
	Here are her results.

96° 81° 78° 83° 68° 75° 79° 81° 69° 81° 76° 91° 61° 75° 81°



6	7	В	9			
7	3.	5	6	8.	9.	
8	1	1	1	3	フ	
9	0	1				

**(3)** 

Janine says "To find the median time, you add all the results and divide by 15"
Janine is wrong.

(b) (i) Explain how to find the median.

The	Media	n is	the r	üddle	. num	60.		
You 1	need -	o co	oss of	! the	Airst	- 7	and	
			•				middle	
numbe	·/:							
							••••••••••••	•••

(ii) Find the median.

79 s

(Total 5 marks)

**(2)** 

11. Here are the ages, in years, of 15 teachers.

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

(3)

One of these teachers is picked at random.

(b) Work out the probability that this teacher is more than 40 years old.

**(2)** 

(Total 5 marks)