

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

	19	18	20	25	37					
	33	21	17	29	20					
Sho	42 ow this	18 inform	23 nation i	37 in an o	22 rdered s	tem and leaf di	agram.			
						Key:				
										(3 marks
	Jo mea Here a			nes in s	econds	it took 18 stude	ents to rui	n 400 m.		
	67		78		79	98	96	1	103	
	75		85		94	92	61	8	30	
	82		86		90	95	90	8	89	
(a)	Draw a	ın orde	ered ste	em and	leaf dia	agram to show	this infor	mation.		
_										
_										
_										
_						Key:				
(b)	Work o	out the	media	ın.						(3
								••••••	•••••	second (2
										(5 marks

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

31 52 43 49 36 35 33 29

54 43 44 46 42 39 55 48

Draw an ordered stem and leaf diagram for these speeds.

(4 marks)

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

62 27 33 44 47

30 22 63 67 54

69 56 63 50 25

31 63 42 48 51

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

(4 marks)



<b>5.</b>	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.

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

Key: 5|2 means 5.2 cm

Work out the median.

•••••	••••	••••	••••	•••	• • • •	••••	cm	
				ľ	2 n	nar	·kc)	

**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.

(3)

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

..... mins

**(2)** 

(5marks)



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

178	189	147	147	166
167	153	171	164	158
189	166	165	155	152
147	158	148	151	172

Complete the stem and leaf diagram to show this information.

Stem	Leaf

(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.

Key 4 | 1 stands for 41 letters

(b) Work out the range. ......(1)

(c) Work out the median.

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

1.1 1.7 2.0 1.0 1.1 0.5 3.3 2.0

1.5 2.6 3.5 2.1 0.7 1.2 0.6

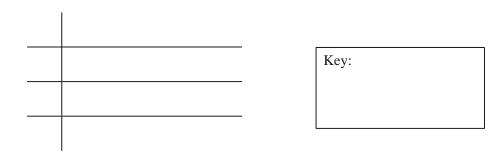
Draw a stem and leaf diagram to show this information.



				esults	e times, s.	111 500			1 1		puzzie.	
9	90	81	78	83	68							
7	75	79	81	69	87							
7	76	91	67	73	81							
(	(a)	Con	nplet	e the	ordered	d stem	and leaf	diagran	n and key	to show t	hese resu	lts.
		6										
		7										
		8							Key			
		9										
			ys "] <b>wro</b> i		id the n	nedian	time, yo	ou add al	ll the resul	lts and div	vide by 15	5"
J			wro	ng.			time, yo		I the resul	lts and div	vide by 15	5"
J	ani	ne is	wro	ng.					I the resul	lts and div	vide by 15	
J	ani	ne is	wro	ng.					I the resul	lts and div	vide by 15	
J	ani	ne is	Exp	ng.	how to	find th			l the resul	Its and div	vide by 15	
J	ani	ne is	Exp	ng.		find th			l the resul	Its and div	vide by 15	5°°
J	ani	ne is	Exp	ng.	how to	find th			I the resul	Its and div	vide by 15	
J	ani	ne is	Exp	ng.	how to	find th			I the resul		vide by 15	

11.	Here are the ages,	in vears	of 1	5 teachers
11.	ricic are the ages,	m years,	OI I	J wachers.

(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)