



## Stem and Leaf Diagram Exam Practice

Q1. Here are the weights, in kg, of 20 dogs.

21 35 41 47 32      12 45 40 52 33      8 55 41 29 72      38 42 48 38 9

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


Answer: \_\_\_\_\_

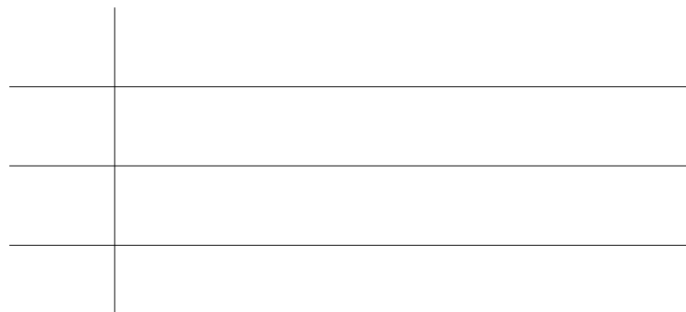
(3 marks)



Q2. Here are the times, in seconds, it took 15 people to complete a spelling test:

54 65 68 49 72      56 66 62 68 51      59 71 60 53 70

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



Key:

Answer: \_\_\_\_\_  
(3 marks)



Q3. The heights of a class of year 9 school pupils were measured in cm.

1		45	47	48			
<hr/>							
1		50	52	53	54	55	57
<hr/>							
1		61	63	64	67	69	
<hr/>							
1		70	72	72	75		

Key:

a) Complete the key.

Answer: \_\_\_\_\_  
(1 mark)

b) Find the range of the heights.

Answer: \_\_\_\_\_  
(1 mark)

c) Find the median height in the class.

Answer: \_\_\_\_\_  
(2 marks)



Q4. The lengths of cucumbers in a box were measured in cm:

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

Key:

a) Complete the key.

Answer: \_\_\_\_\_  
(1 mark)

b) Find the mean weight of a cucumber.

Answer: \_\_\_\_\_  
(2 marks)

c) A cucumber is rejected if it is less than 17 cm or more than 34 cm in length. Find the probability that a randomly selected cucumber from the box is rejected.

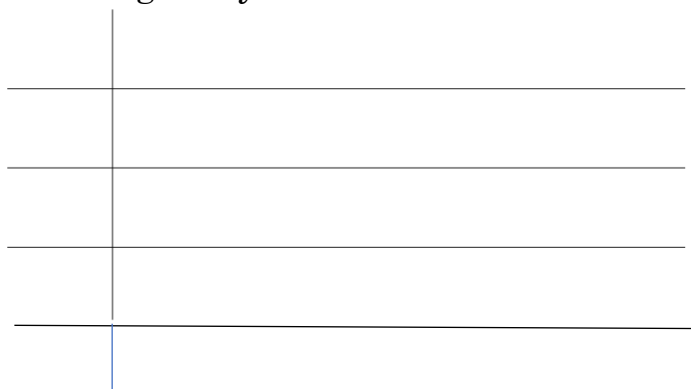
Answer: \_\_\_\_\_  
(2 marks)



Q5. Here are the annual wages of a company's employees, in thousands of pounds:

31, 24.5, 43, 53.2, 19.5, 59.3, 29, 21.7, 53.7, 31.4, 20, 24.6

Draw an ordered stem and leaf diagram to show this information, including a key.



a) Find the range of wages at the company.

Answer: \_\_\_\_\_  
(1 mark)

b) Find the median annual wage

Answer: \_\_\_\_\_  
(1 mark)

c) Find the probability that a randomly selected employee earns less than £30,000 a year.

Answer: \_\_\_\_\_  
(2 marks)

d) Due to an error, the employee who earns £29,000 should be earning £500 less than this. Does this affect the median? Explain your choice.

Answer: \_\_\_\_\_  
(1 mark)