

Stem and Leaf Past Paper Questions



Q1.

Here are the heights, in centimetres, of 15 children.

123	147	135	150	147
129	148	149	125	137
133	138	133	130	151

Show this information in an ordered stem and leaf diagram.

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—	
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(Total for question = 3 marks)

Q2.

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
Sarah	2	10	7	14	4	10

(a) Who had the most consistent scores, Jake or Sarah?

You must give a reason for your answer.

.....
.....

(1)

[Continued]



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.

.....

.....

(1)

(Total for question = 2 marks)

Q3.

Jeremy catches 19 fish.

Here are the weights, in grams, of the fish.

50 61 57 47 53 75 62 48 64 73

78 51 66 58 66 48 55 69 50

Draw an ordered stem and leaf diagram for these weights.

Key:

(Total for question = 3 marks)

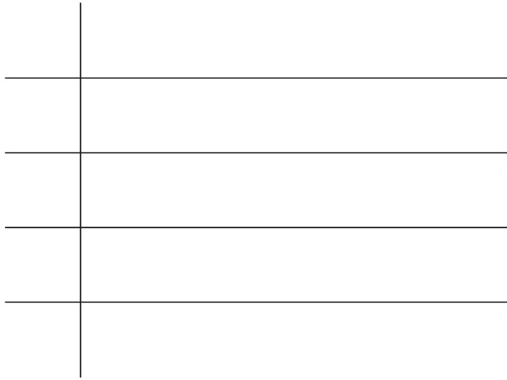


Q4.

The list below shows the weight, in grams, of 15 baskets of strawberries.

193	200	207	211	198
189	218	195	206	189
223	190	207	205	212

Show this information in an ordered stem and leaf diagram.
You must include a key.



Key:

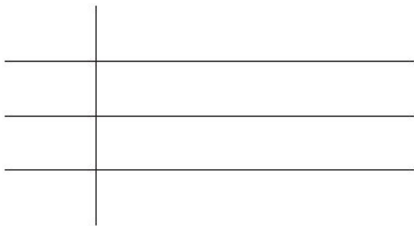
(Total for Question is 3 marks)

Q5.

Here are the heights, in cm, of 20 sunflower plants.

73	84	78	96	98	84	101	93	71	104
81	92	95	103	100	96	87	91	88	96

(a) Draw an ordered stem and leaf diagram for these heights.



Key:

(3)

(b) Work out the range.

..... cm
(1)

(c) Find the median height.

..... cm
(1)

(Total for Question is 5 marks)



Q6.

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.



(3)

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.

(b) Explain why.

.....
.....

(2)

(Total for question = 5 marks)



Q7.

Yan recorded the ages, in years, of a sample of people at a fairground.
He drew this stem and leaf diagram for his results.

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

Key:

1|5 represents 15 years of age

(a) Write down the number of people in the sample.

.....

(1)

(b) Write down the mode.

.....years

(1)

(c) Work out the range.

.....years

(2)

(Total for Question is 4 marks)



Q8.

The stem and leaf diagram gives the heights, in cm, of some potato plants.



Key
2 | 3 represents 23 cm

(a) Write down the greatest height.

.....

(1)

(b) Write down the mode.

.....

(1)

(c) Find the median.

.....

(2)

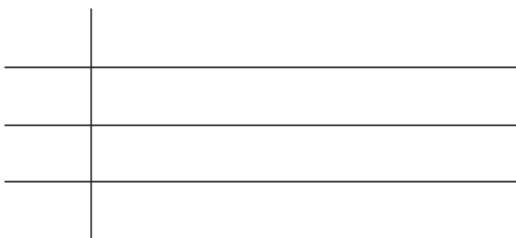
(Total for Question is 4 marks)

Q9.

Hetvi asked her friends how many stickers they each have in their collection. Here are her results.

77	86	94	87	71	98
74	103	71	85	82	84
97	91	88	89	75	

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



Key:

(3)

(b) Find the median number of stickers.

.....

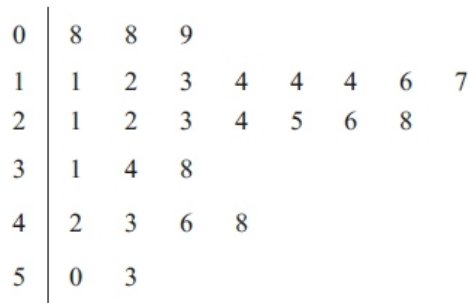
(2)

(Total for question = 5 marks)

Q10.



The stem and leaf diagram shows information about the ages, in years, of the people on a fairground ride.



Key: $4|2$ means 42 years

(a) How many people were on the fairground ride?

.....

(1)

(b) Work out the median age.

.....

(1)

(c) Work out the range of the ages.

.....

(2)

(Total for Question is 4 marks)