Name: _____

GCSE (1 - 9) Stem and Leaf Diagrams	Solutions:

These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2017, Paper 1F, Q10
2	Edexcel, GCSE, Summer 2018, Paper 3F, Q14
3	Edexcel, GCSE, Autumn 2019, Paper 3F, Q13
4	Edexcel, GCSE, Autumn 2020, Paper 1F, Q26
5	Edexcel, GCSE, Autumn 2021, Paper 3F, Q20
6	Edexcel, GCSE, Summer 2022, Paper 1F, Q21
7	Edexcel, GCSE, November 2022, Paper 2F, Q15

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
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)

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.

.....

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(1)

(Total for Question 10 is 2 marks)

[Edexcel, GCSE, Autumn 2017, Paper 1F, Q10]

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.



(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 14 is 5 marks)

[Edexcel, GCSE, Summer 2018, Paper 3F, Q14]

3

The stem and leaf diagram below gives information about the ages of people in a social club.

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.

..... years

(Total for Question 13 is 2 marks)

[Edexcel, GCSE, Autumn 2019, Paper 3F, Q13]

4

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

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

15	8 9 9
16	4 5 7 7 8
17	0 3 4 4 7
18	0 2

Key: 15 | 8 represents 158 cm

Compare the distribution of the heights of the girls with the distribution of the heights of the boys.

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(Total for Question 26 is 3 marks)

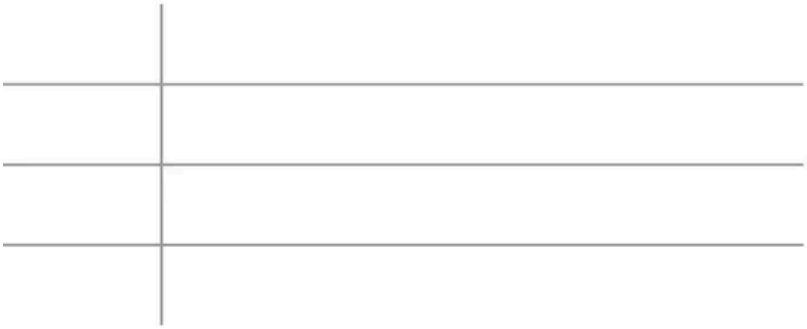
[Edexcel, GCSE, Autumn 2020, Paper 1F, Q26]

5

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

15	20	25	33	17	22	25	18
22	19	32	35	24	28	19	

Draw a stem and leaf diagram for these heights.



Key:

(Total for Question 20 is 3 marks)

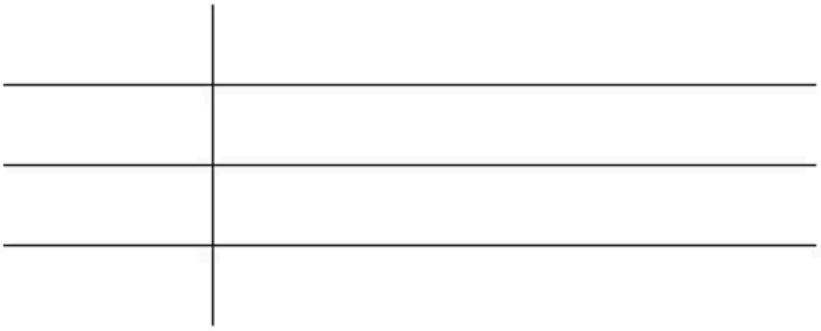
[Edexcel, GCSE, Autumn 2021, Paper 3F, Q20]

6

Here are the ages, in years, of 15 people.

19	28	29	33	27
27	37	25	27	37
17	45	47	25	26

Show this information in a stem and leaf diagram.



Key:

(Total for Question 21 is 3 marks)

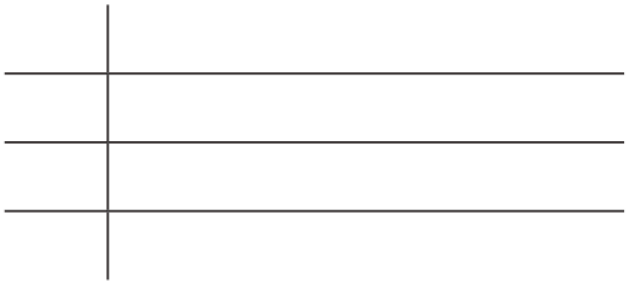
[Edexcel, GCSE, Summer 2022, Paper 1F, Q21]

7

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 15 is 5 marks)

[Edexcel, GCSE, November 2022, Paper 2F, Q15]