

STEM AND LEAF

Pearson Edexcel - Tuesday 19 May 2020 - Paper 1 (Non-Calculator) Foundation Tier

1.

26 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)

2.

14 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)

3.

10 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
<hr/>		
1		2 3 3 4 5
<hr/>		
2		5 6 6 6 6 7
<hr/>		
3		1 3 4 6 8
<hr/>		
4		0 2 9

<p>Key 1 2 represents 12 points</p>
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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.

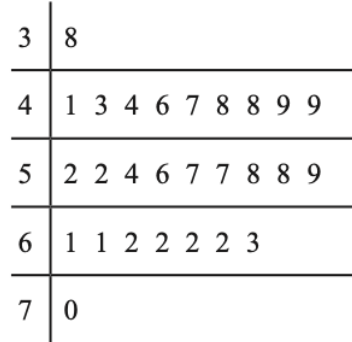
(1)

(Total for Question 10 is 2 marks)

Pearson Edexcel – Specimen 2 - Paper 3 (Calculator) Foundation Tier

4.

10 The stem and leaf diagram gives information about the speeds of 27 cars.



Key:
 $3 \mid 8$ means 38 miles per hour

(a) Find the median speed.

..... miles per hour
 (1)

(b) Work out the range.

..... miles per hour
 (1)

One of the cars is chosen at random.

Jack says,

“The probability that the speed of this car is more than 60 miles per hour is $\frac{1}{3}$ ”

(c) Jack is wrong.
 Explain why.

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 (2)

(Total for Question 10 is 4 marks)

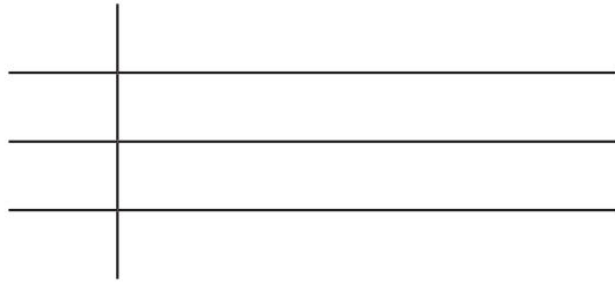
Pearson Edexcel – Specimen 1 - Paper 2 (Calculator) Foundation Tier

5.

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

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

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



(3)

One of the children is chosen at random.

(b) What is the probability that this child has a height greater than 140 cm?

.....
(2)

(Total for Question 13 is 5 marks)