STEM AND LEAF DIAGRAM

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

1.

7 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.

....

....

....

....

....

....

(Total for Question 7 is 3 marks)

Pearson Edexcel - Friday 6 November 2015 - Paper 2 (Calculator) Higher Tier

2.

1 Here are the lengths, in cm, of 15 tables.

$$28 \quad 51 \quad 42 \quad 23 \quad 63$$
$$38 \quad 44 \quad 29 \quad 32 \quad 37$$
$$61 \quad 35 \quad 39 \quad 41 \quad 25$$

Draw an ordered stem and leaf diagram for these lengths.

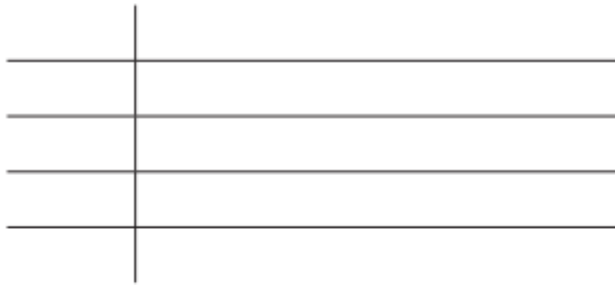(Total for Question 1 is 3 marks)

Pearson Edexcel - Thursday 4 June 2015 - Paper 1 (Non-Calculator) Higher Tier

3.

1 Here are the heights in centimetres of 20 men.

165   164   176   179   188   178   183   172   180   190
167   159   156   176   173   168   169   182   167   192

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

(3)

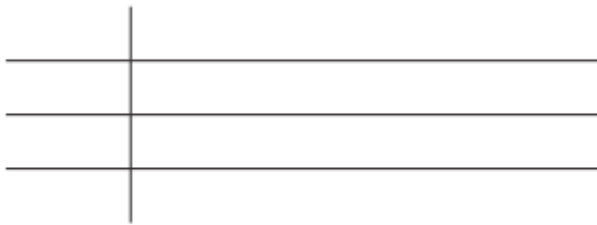(b) Work out the percentage of these men with a height greater than 184 cm.

.... %

(2)

(Total for Question 1 is 5 marks)

Pearson Edexcel - Wednesday 5 November 2014 - Paper 1 (Non-Calculator) Higher Tier

4.

3 Here are the heights, in cm, of 18 children.

98	90	84	102	115	91
88	91	108	110	97	93
90	89	103	95	92	106

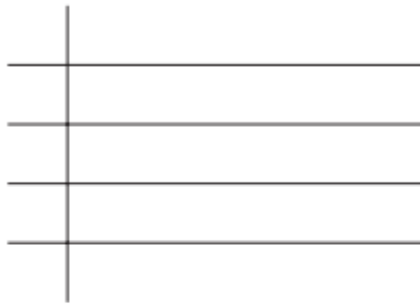Show this information in an ordered stem and leaf diagram.

Pearson Edexcel - Monday 9 June 2014 - Paper 1 (Non-Calculator) Higher Tier

5.

2 Here are the times, in minutes, that 20 children took to walk to school.

13	21	19	27	31	5	23	29	18	25
34	15	28	23	22	40	16	19	32	9

Draw an ordered stem and leaf diagram for these times.

Key:

(Total for Question 2 is 3 marks)

Pearson Edexcel - Tuesday 11 June 2013 - Paper 1 (Non-Calculator) Higher Tier

6.

3 Sixteen babies are born in a hospital.

Here are the weights of the babies in kilograms.

$$2.4 \quad 2.7 \quad 3.5 \quad 4.4 \quad 4.5 \quad 4.1 \quad 4.4 \quad 2.8$$

$$4.1 \quad 3.8 \quad 3.8 \quad 4.2 \quad 3.3 \quad 3.0 \quad 3.7 \quad 3.3$$

Show this information in an ordered stem and leaf diagram.

Key:

(Total for Question 3 is 3 marks)

Pearson Edexcel - Monday 4 March 2013 - Paper 2 (Calculator) Higher Tier

7.

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

$$19 \quad 18 \quad 20 \quad 25 \quad 37$$

$$33 \quad 21 \quad 17 \quad 29 \quad 20$$

$$42 \quad 18 \quad 23 \quad 37 \quad 22$$

Show this information in an ordered stem and leaf diagram.

Key:

(Total for Question 1 is 3 marks)

Pearson Edexcel - Thursday 8 November 2012 - Paper 2 (Calculator) Higher Tier

8.
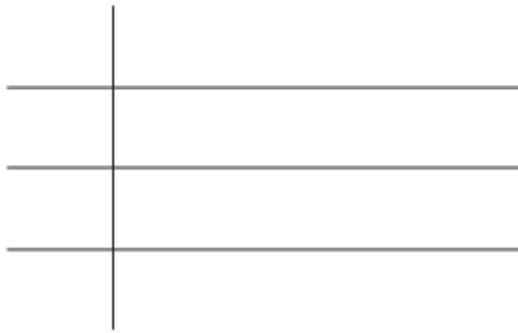
9 The stem and leaf diagram gives information about the numbers of tomatoes on 31 tomato plants.

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

Key: 5 | 7 = 57 tomatoes

(a) Work out the median.

....

(1)

(b) Work out the interquartile range.

....

(2)

(Total for Question 9 is 3 marks)

Pearson Edexcel - Monday 11 June 2012 - Paper 1 (Non-Calculator) Higher Tier

9.

4 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.
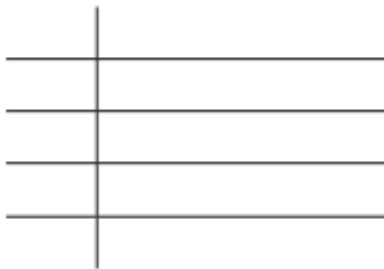
Pearson Edexcel - Friday 2 March 2012 - Paper 3 (Non-Calculator) Higher Tier

10.

7. Jo measured the times in seconds it took 18 students to run 400 m.
Here are the times.

67	78	79	98	96	103
75	85	94	92	61	80
82	86	90	95	90	89

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

Key:

(3)

(b) Work out the median.

.... seconds

(2)

(Total 5 marks)

Pearson Edexcel - Wednesday 9 November 2011 - Paper 3 (Non-Calculator) Higher Tier

11.

4. 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.

```
1 | 3 5 7 7
2 | 0 6 8 8 8 9
3 | 1 5 5 5 5 6 8 9
4 | 1 5
5 | 2
```
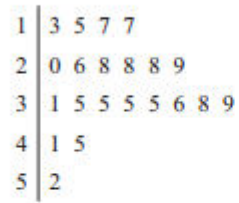
Key: 5|2 means 5.2 cm

Work out the median.

.... cm

(Total 2 marks)

Pearson Edexcel - Friday 10 June 2011 - Paper 4 (Calculator) Higher Tier
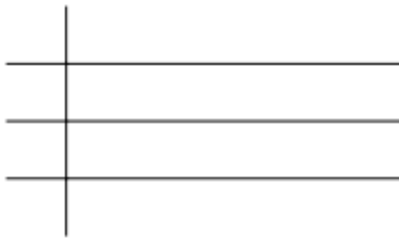
12.

6. Here are the ages, in years, of 16 people.

     36   48   18   25   36   28   45   30

     38   27   41   16   36   48   28   21

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

Key:

(3)

(b) Find the median age.

.... years

(2)

(Total 5 marks)

Pearson Edexcel - Tuesday 9 November 2010 - Paper 3 (Non-Calculator) Higher Tier

13.

10. Chris plays golf.

Here are 15 of his scores.

69	78	82	86	77
83	91	77	92	80
74	81	83	77	72

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

You must include a key.

Key:

(3)

(b) Write down the mode.

....
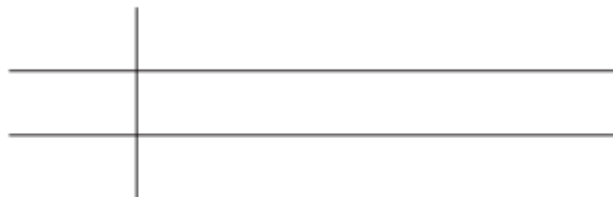
(1)

(Total 4 marks)

2. Here are the weights, in grams, of 16 eggs.

47   45   50   53   43   61   53   62

58   56   57   47   55   62   58   58

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

Key:

(Total 3 marks)

Pearson Edexcel - Thursday 5 November 2009 - Paper 3 (Non-Calculator) Higher Tier

15.

5. Here are the weights in grams, to the nearest gram, of 15 eggs.

33	46	41	54	51
38	60	44	55	51
62	55	52	37	63

(a) Complete the ordered stem and leaf diagram to show this information.
You must include a key.
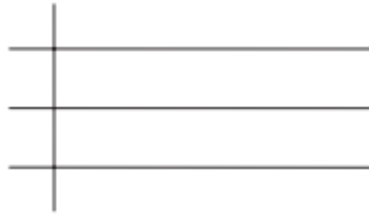
Key

(3)

Meg is going to pick at random one of the eggs.

(b) Work out the probability that this egg will have a weight of more than 45 grams.

....

(2)

(Total 5 marks)

16.