

1 Here are the heights, in cm, of 15 plants.

35 41 47 32 45
40 52 33 55 41
29 38 42 48 38

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

(3 marks)

2 Here are the times, in seconds, it took 20 people to run a race.

54 65 68 49 72 74 56 57 66 62
68 48 51 59 66 71 63 60 53 70

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

(3 marks)

3 Here is a stem and leaf diagram showing the mass, in grams, of some apples.

15	6	6	7	9	
16	1	3	4	5	8
17	0	0	2	3	7
18	0	4	5		

Key: 15 | 6 = 156 grams

Work out the median mass.

(2 marks)

4 Here are the heights, in cm, of 18 people.

190 168 186 186 158 190 165 184 185
183 154 189 153 183 159 167 177 162

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

(3 marks)

5 Here are scores of 18 students in a test.

86 91 65 77 60 91
88 75 65 78 70 63
72 69 63 70 64 67

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

(3)

A student is selected at random

(b) Work out the probability that this student scored more than 80.

(2)

(5 marks)

6 Here is a stem and leaf diagram showing the ages of some footballers.

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

Key: 1 | 7 = 17 years old

(a) Work out the range. (1)

(b) Work out the median age. (2)

(3 marks)

7 Here are the masses, in kg, of 15 objects.

2.9 3.5 2.1 3.8 3.7
1.6 3.1 2.4 2.9 1.5
3.5 4.4 1.8 1.8 2.3

(a) Draw an ordered stem and leaf diagram to show this information. (3)

(b) Work out the median mass. (2)

(5 marks)

8 Here are the speeds, in mph, of 20 cars.

55 70 67 58 69 51 43 63 49 48
65 52 45 42 47 50 47 64 63 58

(a) Draw an ordered stem and leaf diagram to show this information. You must include a key. (3)

(b) Work out the median speed. (2)

(5 marks)

9 Here are the ages of a company's employees.

31 24 43 52 19 59 29
55 51 38 20 38 36 26
31 38 23 29 25 55 26

(a) Draw an ordered stem and leaf diagram to show this information. You must include a key. (3)

One of the employees is selected at random

(b) Find the probability that they are younger than 30. (2)

(5 marks)

10 Here are scores of some students in a test.

51 53 49 88 62
74 68 53 67 51
59 65 42 43 59
63 62 40 67 59

(a) Draw an ordered stem and leaf diagram to show this information. You must include a key. (3)

(b) Work out the median score (2)

Another student sits the test and scores 80.

Boris says: "This means the median will increase."

(c) Is Boris correct? You must explain your answer. (1)

(6 marks)