Stem and Leaf Diagrams

Stem and Leaf Diagram

Suppose this “stem and leaf diagram” represents the lengths of beetles.

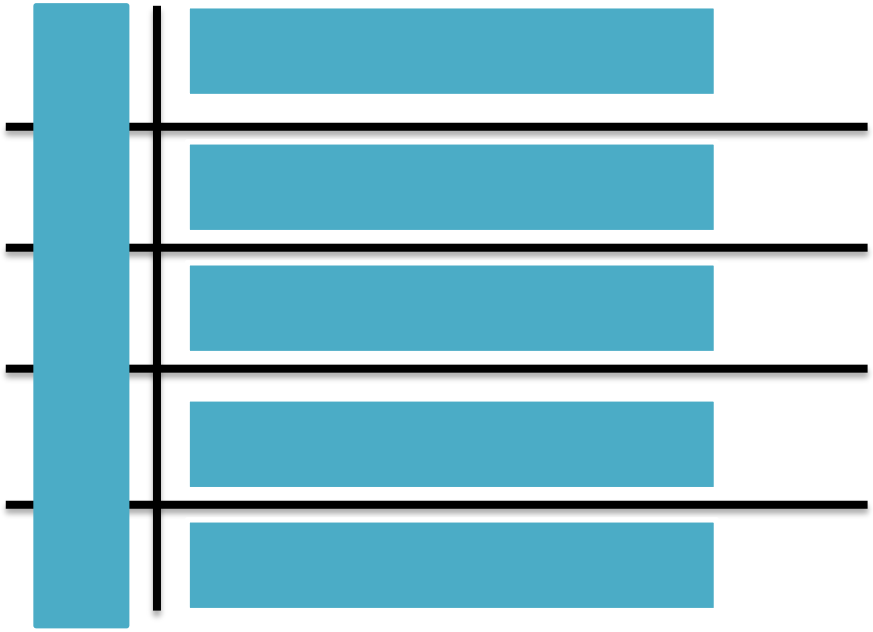
1	4
2	1 2 4 5
3	2 5 6 6 6 7 7 8 8
4	0 1 2 2 4 5 6 7 7 7 7 8
5	0 1 1 2

Key:
2 | 1 means 2.1cm

Example

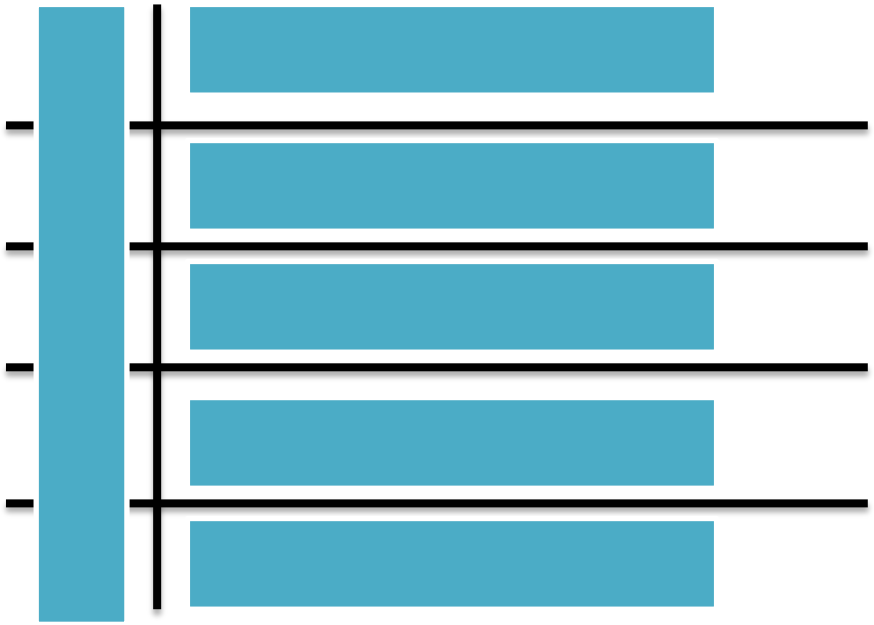
Here are the weights of a group of cats. Draw a stem-and-leaf diagram to represent this data.

36kg 15kg 35kg 50kg 11kg 36kg 38kg 47kg 12kg 30kg 18kg 57kg



Here is the brain diameter of a number of members of 8IW. Draw a stem and leaf diagram representing this data.

1.3cm 2.1cm 5.3cm 2.0cm 1.7cm 4.2cm 3.3cm 3.2cm 1.3cm 4.6cm 1.9cm



Key:

Median =

Mode =

1 Here are the times, in minutes, taken to solve a puzzle.

5 10 15 12 8 7 20 35 24 15

20 33 15 24 10 8 10 20 16 10

(a) In the space below, draw a stem and leaf diagram to show these times.

(b) Find the median time to solve this puzzle.

2 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		

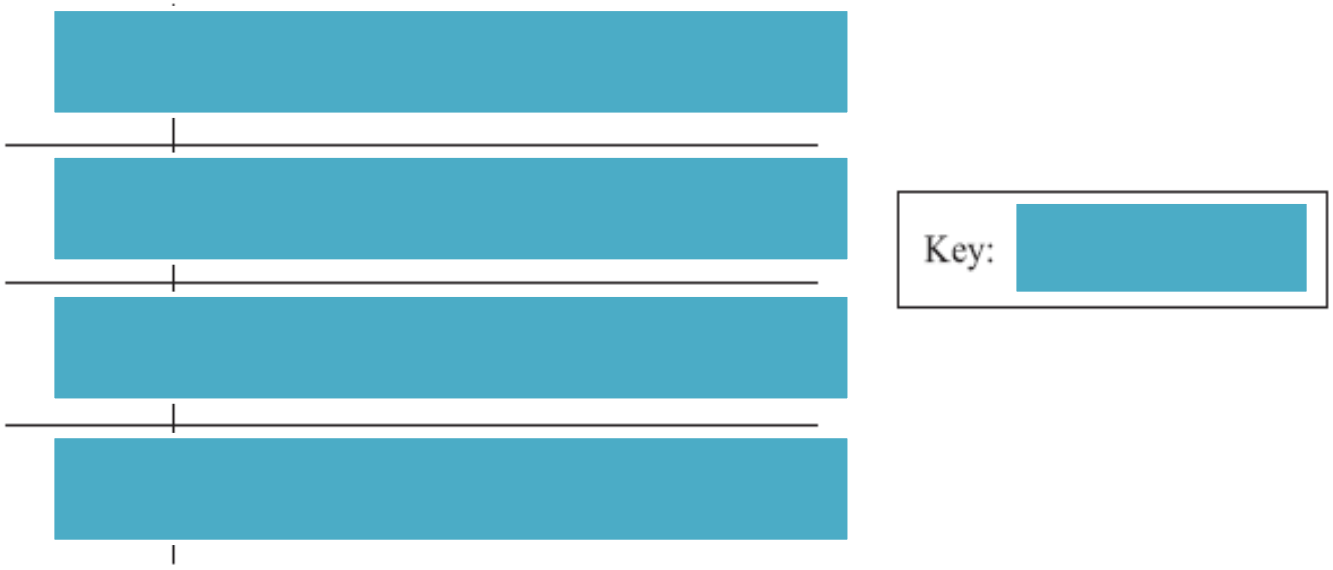
Key: 5 | 7 = 57 tomatoes

Work out the median.

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

19	18	20	25	37
33	21	17	29	20
42	18	23	37	22

Show this information in an ordered stem and leaf diagram.



4 Here is the weight of 16 cats:

4.5kg	4.9kg	5.2kg	3.9kg	4.1kg
5.0kg	3.6kg	4.9kg	5.3kg	4.3kg
7.4kg	3.6kg	5.3kg	3.8kg	5.3kg

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

(b) What is the median weight?

(c) What is the mode weight?