

Statistical Diagrams

1. The table below shows the favourite sports of a group of children.

football	rugby	swimming	hockey	tennis	basketball
15	7	10	5	6	8

Show this information in a bar graph.

2. The table below shows the bedtimes of a number of school pupils.

8pm	9pm	10pm	11pm	12pm
7	12	23	26	14

- (a) Show this information in a bar graph.
- (b) What is the modal bedtime?

3. The attendance at a supported study class is recorded over a 8 week period. The results are shown below.

Week	1	2	3	4	5	6	7	8
Attendance	20	23	19	24	26	29	27	30

- (a) Draw a line graph to illustrate this information.
- (b) Describe the trend in attendance.

4. The amount of rainfall over a 10 day period was recorded. The results are shown below.

Day	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed
Rainfall(mm)	8	5	6	4	5	3	3	2	2	1

- (a) Show this information in a line graph.
- (b) Describe the trend in the graph

5. The marks of 17 pupils in a test were

31 44 45 32 19 45 49 30 12 22 25 27 40 45 30 19 23

- (a) Show this information in a stem and leaf diagram.
- (b) Find the range of the marks.
- (c) Write down the mode.
- (d) Find the median mark.

6. The distances, in miles, driven over a 10 day period by a salesman were

103 125 146 133 125 109 140 135 125 149

- Draw a stem and leaf diagram to illustrate this information.
- Find the range.
- Write down the modal distance travelled.
- Find the median distance travelled.

7. The lengths of 12 snakes are measured, in metres, with results as shown.

3.6 4.2 5.5 4.6 2.9 6.1 5 5.3 5.5 6.7 2.8 3

- Draw a stem and leaf diagram to show these lengths.
- Find the range of the lengths.
- What is the mode?
- Find the median.

8. The stem and leaf diagram shows the cost of cars in a show room.

10	4 5 5 7	10 4 represents £10 400
11	2 3 6	
12	0 1 5 5 5 7	
13	1 8 9	

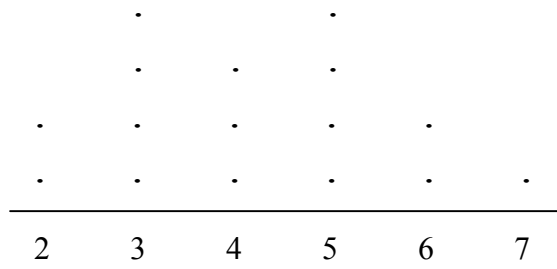
- Find the range of the costs
- Find the median cost.

9. The exam marks of classes 4A and 4B are shown in the back to back stem and leaf diagram below.

4A		4B																		
9	6	4	5	1	5															
8	7	5	6	4	8															
	4	1	7	4	6	6	7													
	1	1	8	6	6	6	6													
	2	2	9	4	6	7	8	9	9	5	1	1	represents	51						

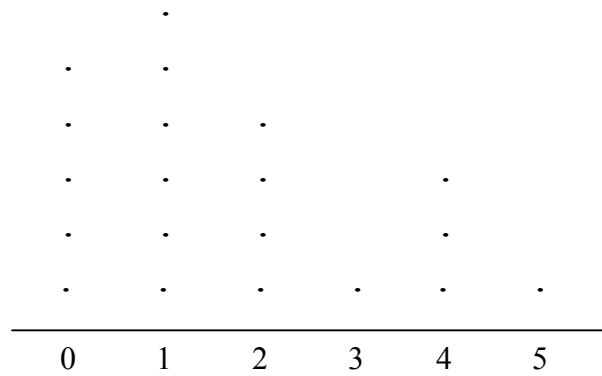
- Find the range of the marks for 4A
- What is the modal mark for 4B?
- Find the median mark of 4B.
- Which class did better?

10. The dot plot below shows the number of rooms in 16 different houses.



- What is the mode?
- Find the median number of rooms.

11. The number goals scored by 20 football teams on Saturday were



- What is the modal number of goals scored?
- Find the median.