



- 1) The number of pens in each pupil's pencil case in a classroom has been counted. The results are displayed in a table.

Number of pens	Number of pupils
0	4
1	6
2	7
3	5
4	3
5	1

- Work out the total number of pens in the classroom.
- Write down the modal number of pens in a pencil case.
- Work out the mean number of pens in a pencil case.
- Work out the range of the number of pens in a pencil case.



- 2) Thomas is analysing the local football team. He records the number of goals scored in each football match in the past twelve months.

Thomas said that the mode is 7
Thomas is wrong.

- Explain why.
- Calculate the mean number of goals scored.

Goals scored	Frequency
0	7
1	5
2	3
3	6
4	2
5	1
6	1



- 3) Sindy recorded the time, in minutes, that her train was late over 100 days. Information about these times is shown in the table.

Time (t minutes)	Frequency		
$0 < t < 6$	15		
$6 < t < 12$	23		
$12 < t < 18$	28		
$18 < t < 24$	19		
$24 < t < 30$	15		

Calculate an estimate for the mean time that her train was late.
Give your answer to 1 decimal place.