

Statistics (2) - Mean, Median & Mode (Frequency Tables)

1. Calculate the **mean** and determine the **median** and **mode** for each frequency table below.

Apple Weight (g)	<i>f</i>
70	2
71	6
72	9
73	11
74	8
75	3
76	1

Eggs in Nest	<i>f</i>
1	5
2	15
3	25
4	30
5	15
6	10

Test Marks /10	<i>f</i>
3	1
4	0
5	2
6	8
7	9
8	13
9	9
10	8

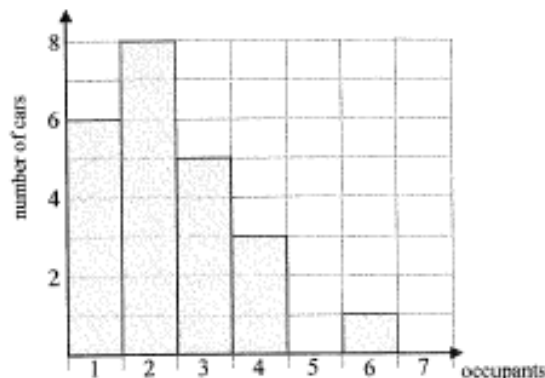
2. Twenty-five children were measured and their heights are shown in the frequency table below.

height (metres)	1.4	1.44	1.48	1.52	1.56
frequency	3	5	6	8	3

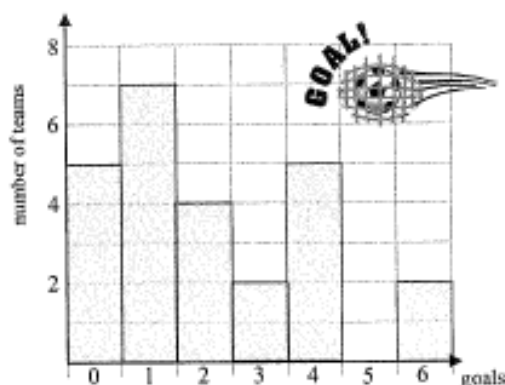
Calculate the mean height of the 25 children correct to 1 decimal place.

3. In a survey the number of occupants in the cars passing a school was recorded.

The results have been shown in the histogram opposite.



- (a) How many cars were in the survey?
- (b) What is the modal number of occupants?
- (c) Construct a frequency table from the diagram and use it to calculate the mean number of occupants per car correct to 1 d.p.
4. The graph opposite shows the number of goals scored by 25 football teams on a particular Saturday.
- (a) What is the range of goals scored?
- (b) State the median and modal number of goals.
- (c) What percentage of the teams scored 2 goals?
- (d) Construct a frequency table from the graph and use it to calculate the mean number of goals scored.



5. (**Extension**) Construct your own frequency table to fit the following criteria:

$$\text{Range} = 5, \quad \sum f = 15, \quad \text{mode} = 7, \quad \text{median} = 6, \quad \text{mean} = 6$$

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1. Table 1 : mean = 72.25 , median = 73 , mode = 73
Table 2 : mean = 3.65 , median = 4 , mode = 4
Table 3 : mean = 7.78 , median = 8 , mode = 8
2. mean = 1.5 m
3. (a) 23 cars (b) 2 (c) frequency table , mean = 2.4 occupants/car
4. (a) range = 6 goals (b) median = 2 goals , mode = 1 goal
(c) 16% (d) frequency table , mean = 2.12 goals
5. A possible answer

x	3	4	5	6	7	8
frequency	1	2	2	3	5	2