1. State the differences between bar charts and histograms

2. The table below records the length of time a doctor spent on each consultation throughout one week.

Time of consultation (to nearest minute)	No. of consultations (Frequency)	Class width	Frequency Density (Freq./ Class width)
2	10		
3 – 4	60		
5 – 6	24		
7	18		
8 – 11	38		
Total	150		

a. Draw a histogram of this data

b. Estimate the number of patients that had a consultation which lasted between 4 and 9 minutes.

Answers

1.

Bar Charts show qualitative data and discrete quantitative data
eg eye colour, shoe size

Histograms show continuous quantitative data
eg height, weight, time

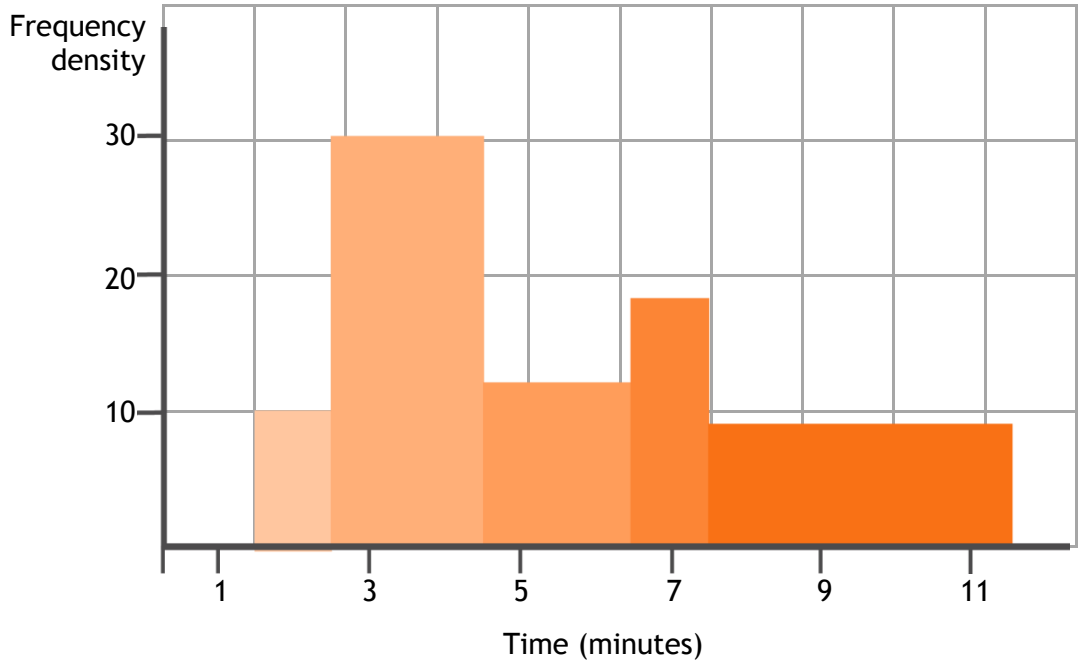
Bar Chart - gaps between the bars

Histogram - no gaps between the bars as continuous data

Bar Chart - height of the bar represents the frequency

Histogram - area of the bar is proportional to the frequency

2. a.



b.

≈ 71 patients