

## Histograms - Exercises

1) The following figures are the hottest daily temperatures ( $^{\circ}\text{C}$ ) during June at a particular coastal resort:

20, 21, 19, 22, 22, 23, 23, 23, 24, 25, 25, 26, 27, 28, 25, 24, 24, 23, 22, 21, 22, 23, 23, 24, 25, 24, 25, 26, 27, 26

With the aid of a frequency table draw a histogram for these temperatures.

2) During trials of one variety of broad bean plant a seed merchant noted the number of beans in each pod as listed below:

7, 10, 6, 7, 10, 7, 8, 9, 7, 7, 6, 5, 7, 7, 3,
6, 9, 5, 11, 4, 7, 5, 4, 10, 7, 7, 6, 8, 5, 6,
9, 9, 8, 8, 7, 4, 8, 6, 5, 8, 7, 7, 4, 6, 2,
8, 5, 7, 9, 5, 5, 8, 5, 6, 6, 6, 8, 8, 9, 5,
8, 6, 6, 9, 9, 6, 9, 8, 9, 6, 7, 6, 8, 6, 8,
6, 8, 6, 8, 7, 7, 7, 7, 7, 9, 7, 6, 7, 6, 7,
7, 10, 10, 7, 7, 9, 6, 8, 11, 8,

Draw up a frequency table and hence construct a histogram for the number of beans/pod.

3) The lengths of 40 common building bricks were measured to the nearest millimetre with the following results:

214	216	215	216	217	215	216
215	213	214	215	215	216	215
216	215	215	217	214	215	216
212	214	216	215	216	214	216
215	217	213	215	215	215	214
214	215	218	213			

Draw up a frequency table and hence draw a histogram for these measurements.

4) 80 houses were checked to find the number of power points per house. The results were as follows:

5, 8, 3, 5, 5, 6, 3, 0, 6, 2, 5, 2, 2, 1, 9, 6, 8, 6, 3, 6,
4, 2, 7, 4, 5, 4, 5, 8, 2, 8, 8, 5, 2, 5, 7, 5, 3, 7, 6, 2,
8, 6, 6, 3, 5, 5, 7, 9, 6, 4, 8, 3, 2, 6, 4, 9, 2, 8, 6, 4,
6, 3, 1, 8, 2, 4, 4, 1, 1, 9, 5, 7, 7, 5, 5, 7, 2, 6, 2, 4

Draw up a frequency table and hence draw a histogram of this data.