## 5.10 CASE STUDY

In preparation for carrying out estimations and hypothesis tests at the end of future chapters, it is suggested that, at this stage, you produce histograms for:
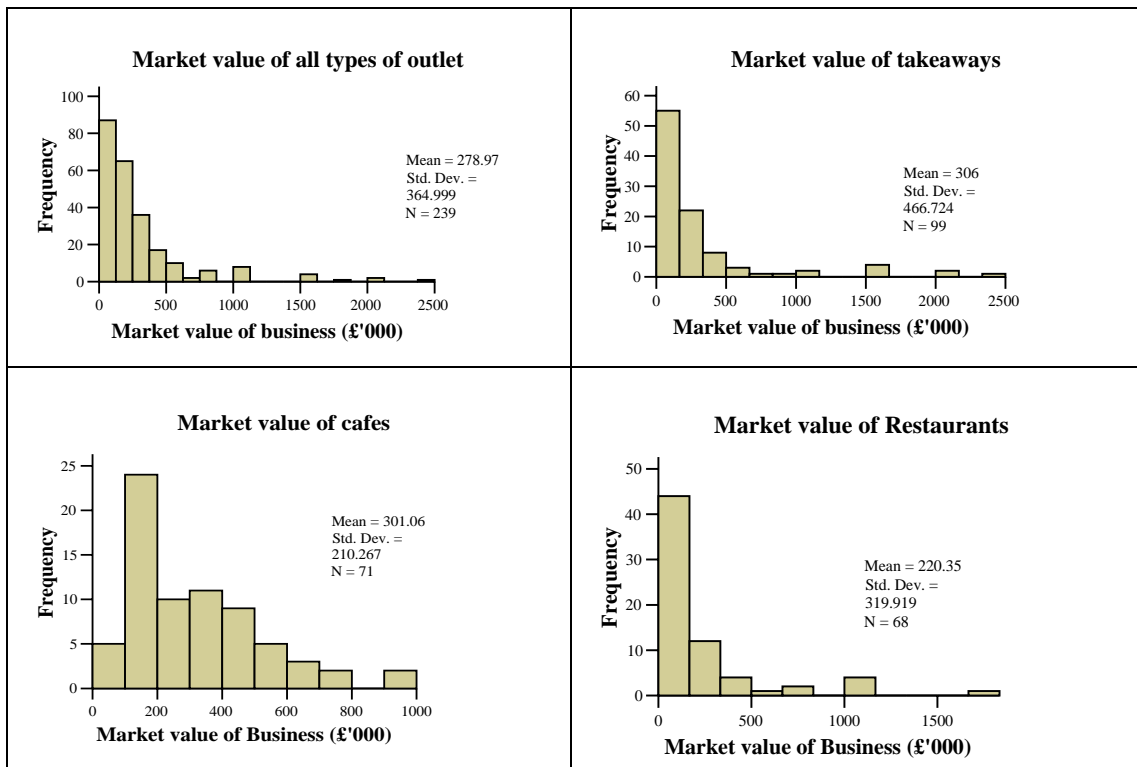(To separate the groups refer to Chapter 14, sections 2.1.7, 5.1.12 or 8.1.7)

- Gross sales for all outlets together; gross sales for each type of outlet separately

- Market value of all outlets together; market value of each type of outlet separately

- Number of full-time employees for all outlets together; number of full-time employees for each type of outlet separately

- Number of part-time employees for all outlets together; number of part-time employees for each type of outlet separately

- Wages as % of sales for all outlets together; wages as % of sales for each type of outlet separately

- Advertising as % of sales for all outlets together; advertising as % of sales for each type of outlet separately

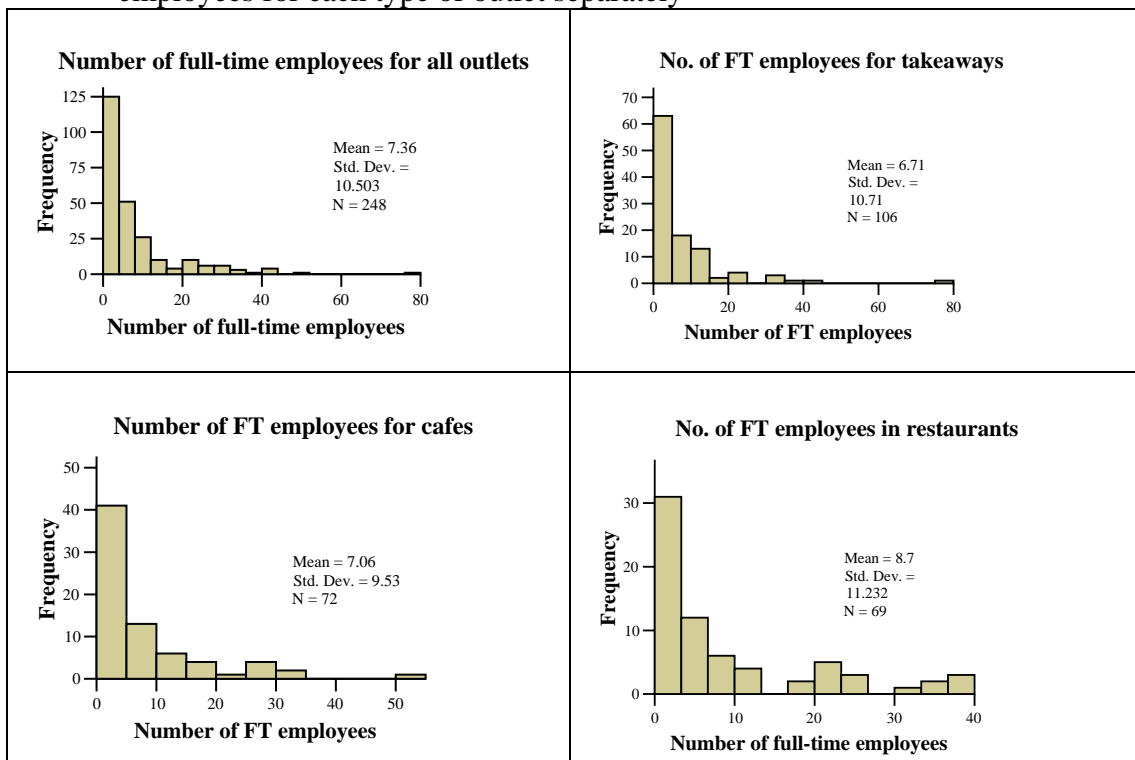- Gross sales for all outlets together; gross sales for each type of outlet separately
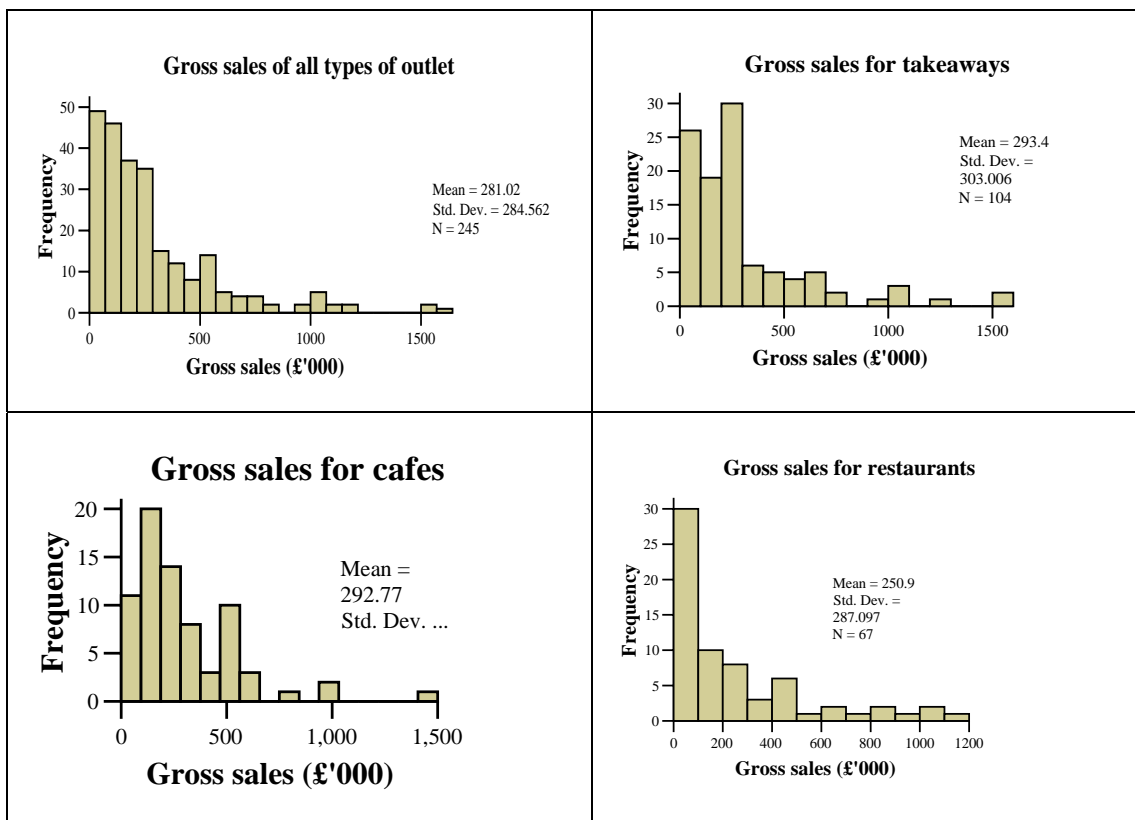
This data all appears to be too positively skewed to be judged as normal. Tests for normality on this data will be carried out later.

- Market value of all outlets together; market value of each type of outlet separately

Market value of all types of outlet

Mean = 278.97
Std. Dev. = 364.999
N = 239

Frequency / Market value of business (£'000)

Market value of takeaways

Mean = 306
Std. Dev. = 466.724
N = 99

Frequency / Market value of business (£'000)

Market value of cafes

Mean = 301.06
Std. Dev. = 210.267
N = 71

Frequency / Market value of Business (£'000)

Market value of Restaurants

Mean = 220.35
Std. Dev. = 319.919
N = 68

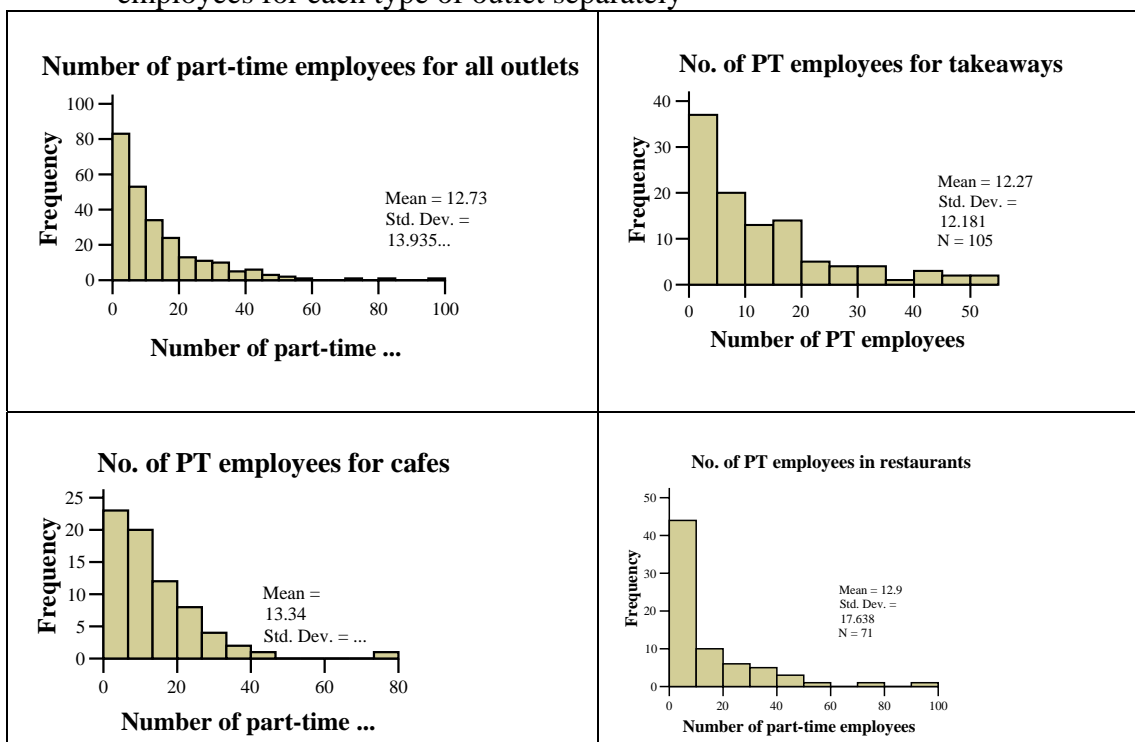Frequency / Market value of Business (£'000)

This data all appears to be too positively skewed to be judged as normal. Tests for normality on this data will be carried out later.

- Number of full-time employees for all outlets together; number of full-time employees for each type of outlet separately

Number of full-time employees for all outlets

Mean = 7.36
Std. Dev. = 10.503
N = 248

No. of FT employees for takeaways

Mean = 6.71
Std. Dev. = 10.71
N = 106

Number of FT employees for cafes

Mean = 7.06
Std. Dev. = 9.53
N = 72

No. of FT employees in restaurants

Mean = 8.7
Std. Dev. = 11.232
N = 69

This data all appears to be too positively skewed to be judged as normal. Tests for normality on this data will be carried out later.

- Number of part-time employees for all outlets together; number of part-time employees for each type of outlet separately

Number of part-time employees for all outlets

Mean = 12.73
Std. Dev. = 13.935...

No. of PT employees for takeaways

Mean = 12.27
Std. Dev. = 12.181
N = 105

No. of PT employees for cafes

Mean = 13.34
Std. Dev. = ...

No. of PT employees in restaurants

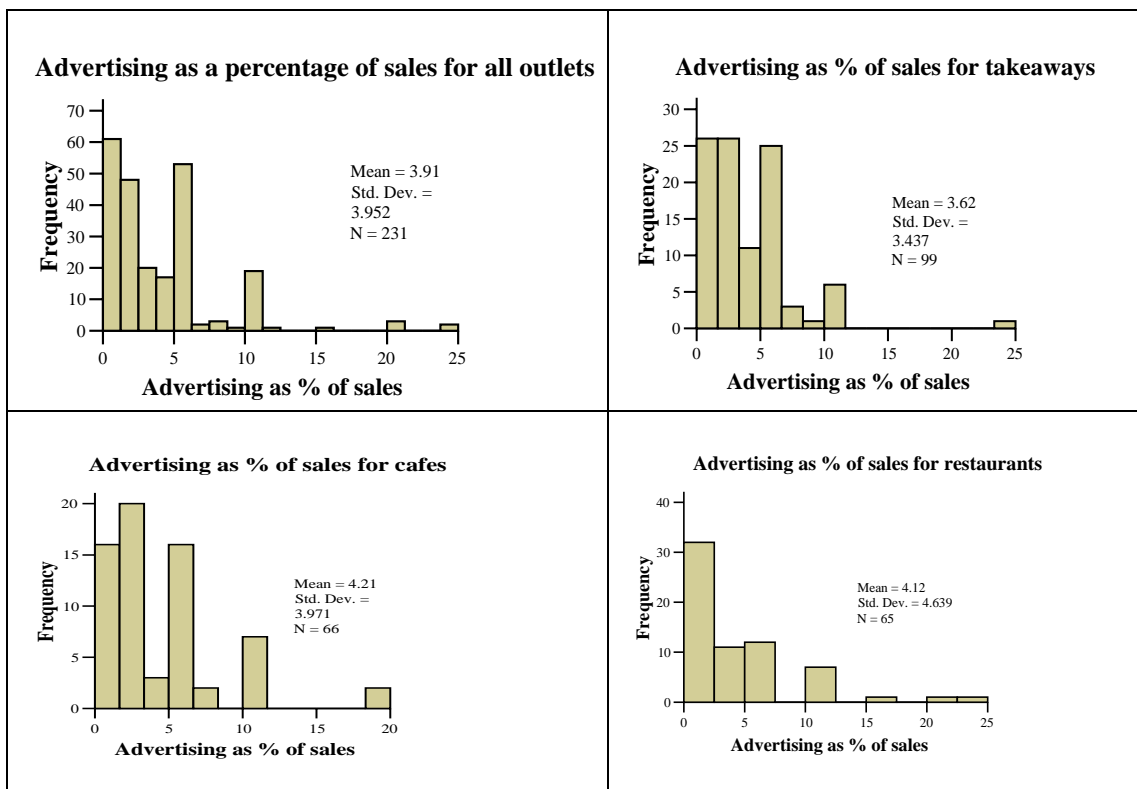Mean = 12.9
Std. Dev. = 17.638
N = 71

This data all appears to be too positively skewed to be judged as normal. Tests for normality on this data will be carried out later.

- Wages as % of sales for all outlets together; wages as % of sales for each type of outlet separately
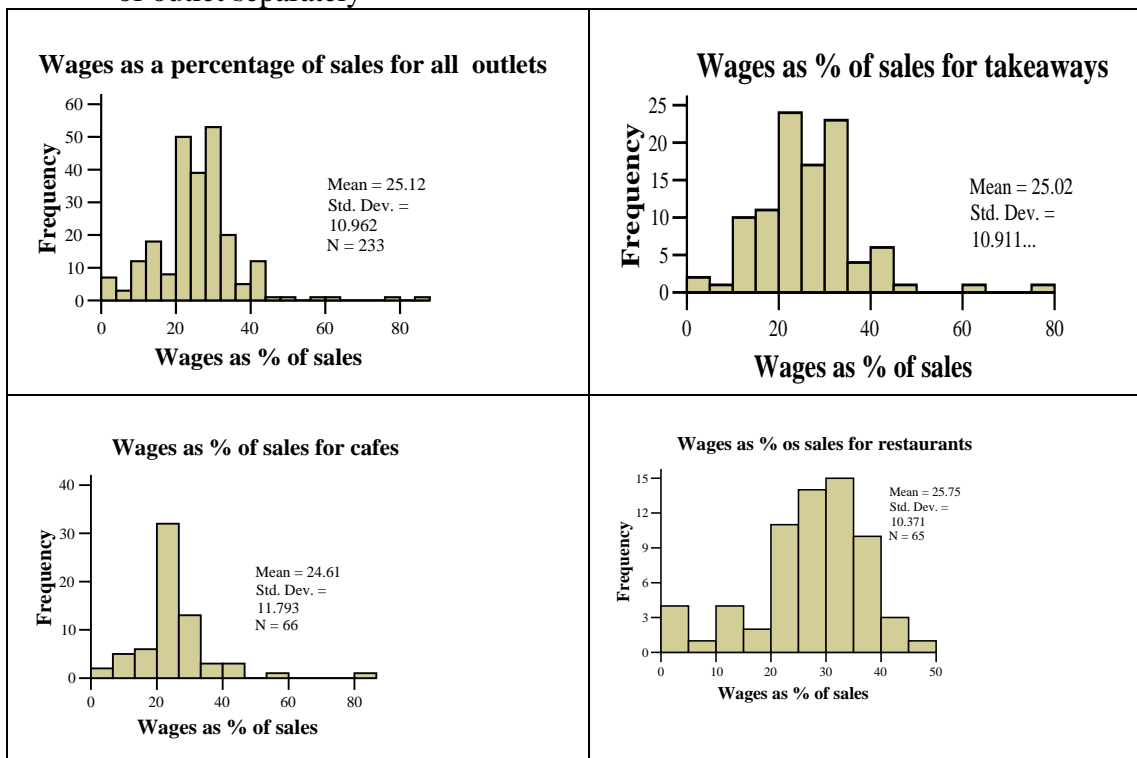
This data all appears to be normal.

- Advertising as percentage of sales for all outlets together; advertising as a percentage of sales for each type of outlet separately

This data all appears to be normal.