

2.4 Children

1. A supermarket, in Bedminster, has recorded the bonuses paid to its eleven checkout staff:

£13.76	£14.73	£12.98	£9.96	£22.43	£11.69
£12.74	£17.68	£16.93	£17.54	£14.64	

- (a) Find, to the nearest penny, the mean bonus paid.
(b) Arrange the data in ascending order.
(c) What is the median bonus?
(d) Does the mean or the median give more information to the employer?
2. A chocolate factory in Keynsham makes chocolate bars that are suppose to weigh 75g. A sample of fifty bars from one day's production has the following weights (in grams).

74.9	75.1	75.0	75.0	75.1	75.1	75.0	75.1	74.9	75.5
75.2	75.2	75.0	75.3	75.1	75.3	75.0	74.9	75.0	75.2
74.9	75.0	75.0	75.1	74.9	75.2	75.3	75.4	75.1	75.0
75.0	74.9	75.2	75.2	75.0	75.0	74.9	75.1	75.2	74.9
75.4	75.1	75.3	75.9	75.4	75.1	74.9	75.3	75.3	75.1

- (a) Show this data in a frequency table.
(b) Illustrate the data in a histogram, comment on it.
(c) What is the modal weight?
(d) What is the mean weight?
(e) The median weight is 75.07g. Explain which measure, mean, median or mode you think gives more useful information about the "average" weight of chocolate bars.

