

Session 20 : Data Handling 4

(1) The total rainfall figures, in millimetres, for the past 7 years in Egypt are shown below:

27 24 31 30 28 15 29

Find the five yearly moving averages.

! The table shows the amounts of Jenny's gas bills from September 2001 to December 2002.

Date	September 2001	December 2001	March 2002	June 2002	September 2002	December 2002
Amount of bill (£)	28.70	32.40	29.10	7.80	30.30	38.60

- (a) Explain why a **four-point** moving average is appropriate for these data.
- (b) Show that the first value of the four-point moving average is £24.50
- (c) Calculate the second value of the four-point moving average for these data.

Higher only

The table shows the numbers of each type of employee at a large store.

Management	Shop assistants	Office staff	Warehouse staff	Security staff
12	67	35	31	15

The owner wishes to choose some employees to form a committee to represent the views of all the employees.

- (a) State **one** advantage of using a sample stratified by type of employee.
- (b) The owner wants 16 employees on the committee. He decides to use a sample stratified by type of employee.

Complete the table to show how many of each type of employee he should choose.

Management	Shop assistants	Office staff	Warehouse staff	Security staff