

## Information Handling S1-S3, National 4

1. Over a season, a football team recorded the number of goals they scored in each of their matches.

Game	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
No. of goals	3	4	5	6	7	5	4	3	3	1	1	1	0	1	1

- a) Calculate the mean, median, mode and range for the number of goals for the season.
- b) Draw a line graph to display the above information.
- c) Describe the trend of the graph.

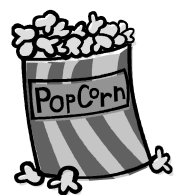


2. The mean age of 3 girls, Faye, Jane and Doreen is 9 years of age. Faye is aged 6. Jane is aged 8. What age must Doreen be?

3. The number of videos hired from Filmbuster was monitored for 50 days.

54	63	10	32	51	64	58	48	8	30	58	52	63	43	28
55	24	7	50	48	68	37	68	31	46	67	12	47	32	20
63	58	49	40	32	58	24	32	47	20	55	18	53	38	14
19	14	60	54	49										

- a) Using appropriate intervals (eg. 0 – 9, 10 – 19, etc) construct a frequency table to organise the data.
- b) Using the frequency table construct a bar chart to display the information.
- c) What is the modal class?
- d) In what class is the median number of videos hired?



4. For the following examples, state whether each one is continuous or discrete data:

- a) Number of pages in a book
- b) Length of a movie
- c) Temperature of an oven
- d) Shoe size

