

**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.

Mean = 3 Median = 3 Range = 7 Mode = 1

- b) Draw a line graph to display the above information.

See below.

- c) Describe the trend of the graph.

The team scored lots of goals at the start of the season but this decreased as time went on



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?

Age in total = 27  
6 + 8 = 14 so Doreen must be 13 years old.

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.

See below

- b) Using the frequency table construct a bar chart to display the information.

- c) What is the modal class? 50 – 59

- d) In what class is the median number of videos hired? 40 – 49

↑ C

↑ D



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

- a) Number of pages in a book C

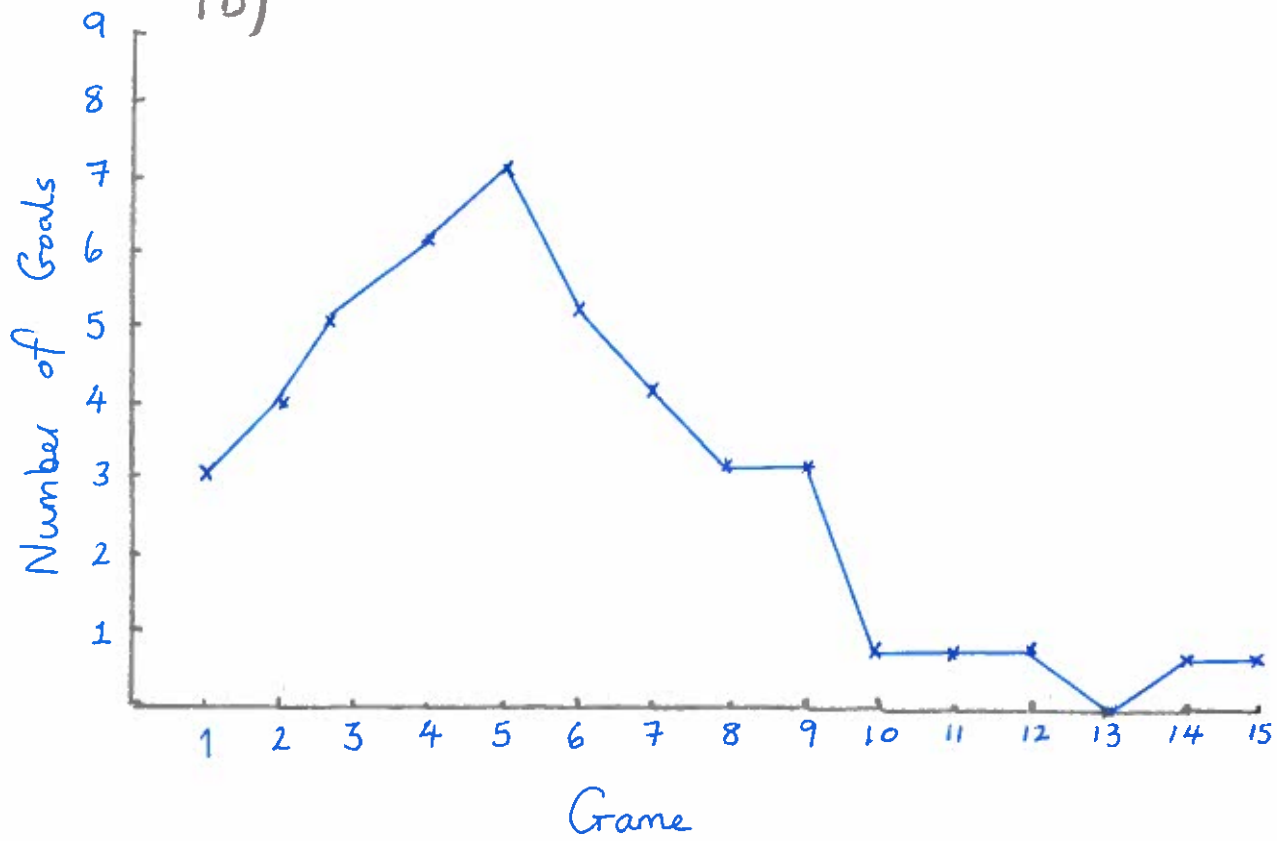
- b) Length of a movie C

- c) Temperature of an oven C

- d) Shoe size D



1b)



3a)

Interval	Tally	Frequency
0 - 9		2
10 - 19		6
20 - 29		5
30 - 39	III	8
40 - 49	IIII	9
50 - 59	IIII II	12
60 - 69	IIII	8
70 - 79		0

3b)

### Number of films hired

