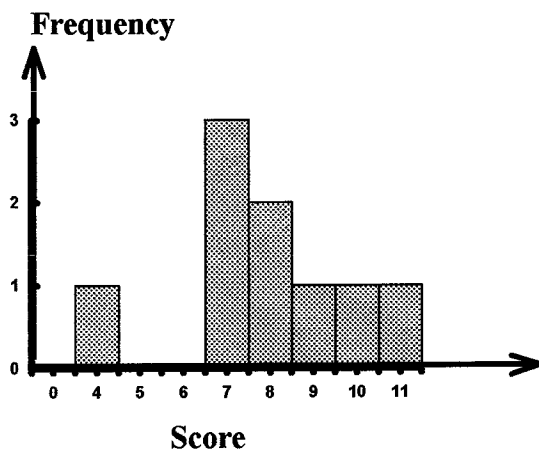


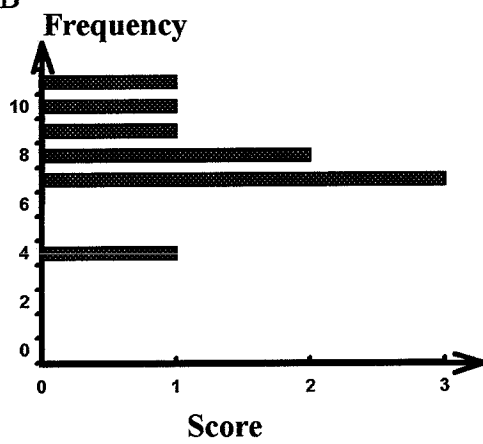


6 The histogram to represent this data would be:

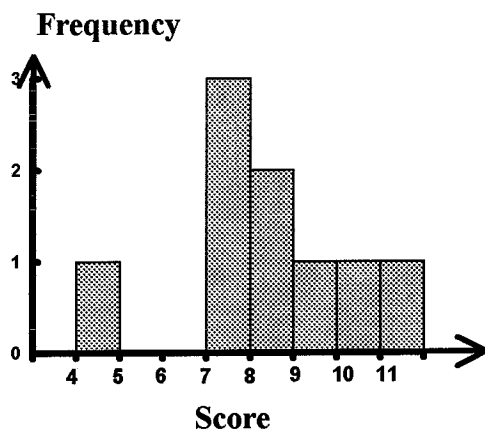
A



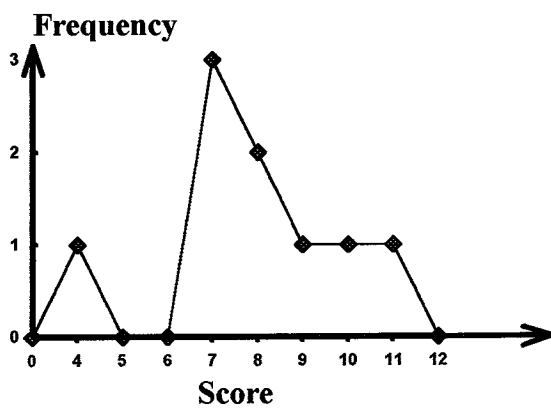
B



C



D



- 7 In a survey about their mark on a spelling test, ten grade 3 students gained the following marks

5, 7, 8, 10, 4, 6, 8, 8, 9, 6

In this survey:

- A The mode was 8 and the median was 7.5.
- B The mode was 8 and the median was 5.
- C The mode was 6 and the median was 7.1.
- D The mode was 7.1 and the median was 7.5.

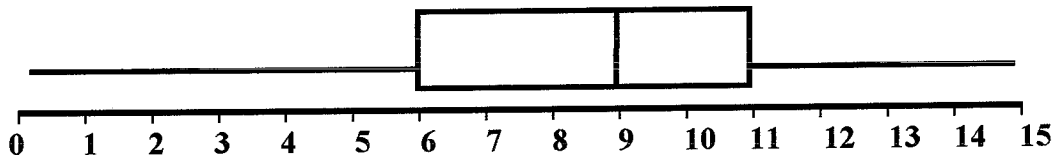
THE NEXT 3 QUESTIONS REFER TO THE FOLLOWING SURVEY RESULTS.

1, 1, 2, 3, 5, 6, 8, 10, 11, 11, 13, 13, 14, 15, 18

- 8 The 25th percentile is:
- A 2
  - B 2.5
  - C 3
  - D 4
- 9 The range of the scores is:
- A 10
  - B 12
  - C 17
  - D 18
- 10 The interquartile range is:
- A 10
  - B 12
  - C 17
  - D 18

THE NEXT 3 QUESTIONS REFER TO THE FOLLOWING INFORMATION.

A certain set of scores from a survey were represented in a box and whiskers plot, as shown:



- 11 The median was:
- A 7
  - B 7.5
  - C 8
  - D 9
- 12 The interquartile range was:
- A 2
  - B 3
  - C 5
  - D 15
- 13 From this plot we can deduce that:
- A Half of the people in the survey had a score from 6 to 11.
  - B The mean score was 9.
  - C All of the actual scores were from 6 to 11, although the possible scores ranged from 0 to 15.
  - D 15 people were in the survey.

**14 An example of discrete data is:**

- A the weight of adolescent students.
- B the heights of primary aged children.
- C the length of newborn babies.
- D the number of cars stopping for petrol at a particular service station.

**THE FOLLOWING 4 QUESTIONS REFER TO THE DATA TABLE BELOW.**

**Year 10 History Results**

<b>MARK</b>	<b>CLASS FREQUENCY</b>
0 - 9	0
10 - 19	1
20 - 29	3
30 - 39	4
40 - 49	7
50 - 59	10
60 - 69	15
70 - 79	5
80 - 89	4
90 - 99	1

**15 The total number of students in the History results survey was:**

- A 15
- B 50
- C 90
- D 100

**16 The modal class was:**

- A 90 - 100
- B 60 - 69
- C 50 - 59
- D 40 - 49

**17 The percentage of students with a mark below 60% was:**

- A 20%
- B 25%
- C 50%
- D 59%

**18 The mean History mark would be considered to be:**

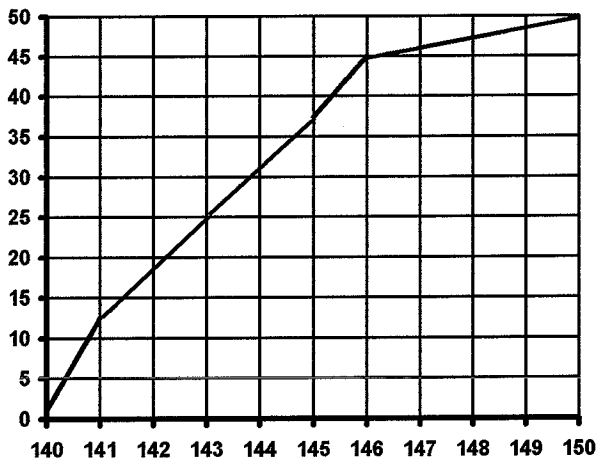
- A 57.1
- B 60
- C 64.5
- D 65

19 When a student received her report from a science competition which consisted of 50 multiple choice items, it stated that she was “on the 90th percentile”.

- A She gained 90% on the test.
- B Ninety students gained her particular score.
- C 90% of the candidates gained a mark higher than hers.
- D 10% of the candidates gained a mark higher than hers.

THE FOLLOWING 4 QUESTIONS REFER TO THE INFORMATION BELOW:

This cumulative frequency graph represents a survey of students about their height, which was measured to the nearest centimetre.



20 This graph shows that:

- A There were 50 students in the survey with a height of 150cm.
- B There were 50 students in the survey altogether.
- C The mode height was 150 cm.
- D 50% of the students had a height of 150 cm.

21 The median is:

- |       |       |
|-------|-------|
| A 25  | B 143 |
| C 145 | D 150 |

22 The interquartile range is from:

- |                |              |
|----------------|--------------|
| A 12.5 to 37.5 | B 25 to 75   |
| C 141 to 145   | D 143 to 147 |

23 From the graph, the percentage of students taller than 146 cm is:

- |       |       |
|-------|-------|
| A 90% | B 50% |
| C 10% | D 5%  |

THE NEXT 2 QUESTIONS REFER TO THE FOLLOWING DATA.

This data lists the weights of 1000 randomly selected packets of sugar, labelled as 1 kg packets.

Weight in g	Frequency
980 -	1
985 -	17
990 -	132
995 -	350
1000 -	349
1005 -	131
1010 -	18
1015 - 1020	2
	1000

**24 The value of the mean (to the nearest whole number) is:**

A 990 g    B 995 g    C 1000 g    D 1005 g

**25 The percentage of packets of sugar which were underweight was:**

A 15%    B 35%    C 50%    D 85%

