

Edexcel GCSE

Mathematics (Linear) – 1MA0

TALLYS AND CHARTS

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.
Tracing paper may be used.

Items included with question papers

Nil

**Instructions**

Use black ink or ball-point pen.

Fill in the boxes at the top of this page with your name, centre number and candidate number.

Answer all questions.

Answer the questions in the spaces provided – there may be more space than you need.

Calculators may be used.

Information

The marks for each question are shown in brackets – use this as a guide as to how much time to spend on **each** question.

Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed – you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

Advice

Read each question carefully before you start to answer it.

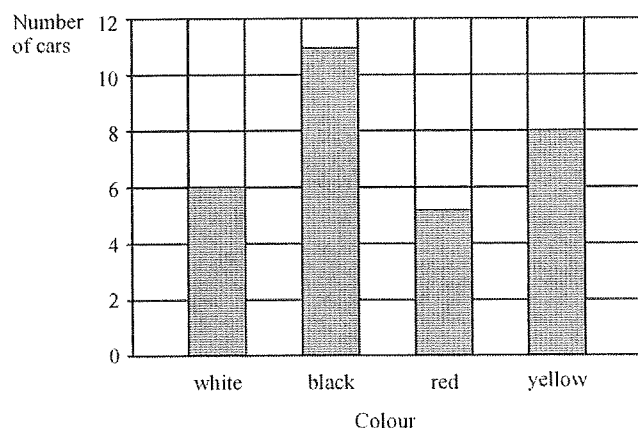
Keep an eye on the time.

Try to answer every question.

Check your answers if you have time at the end.

1. Jerry recorded the colour of each of the cars he saw one morning.

The bar chart shows this information.



- (a) Write down the number of red cars.

5

(1)

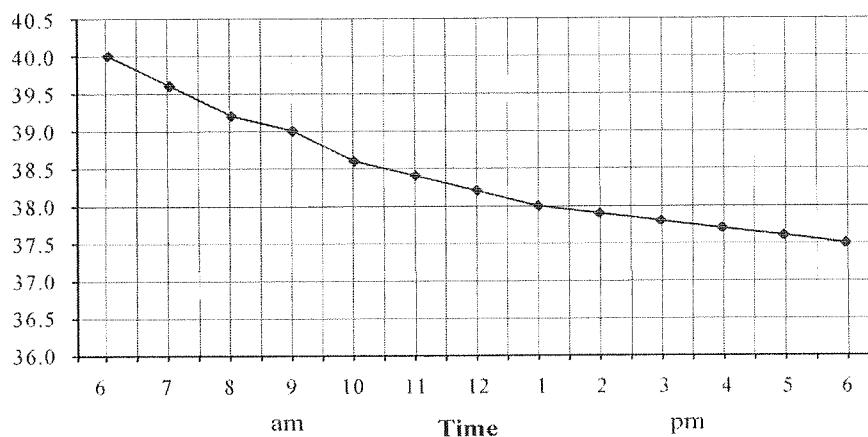
- (b) Which was the most popular colour of car?

Black

(1)

(Total 2 marks)

2. José is in hospital.
Here is his temperature chart during one day.



- (a) At what time was José's temperature 39.0°C?

9

(1)

- (b) What can you say about José's temperature from 6 am to 6 pm?


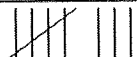


it was falling

(1)

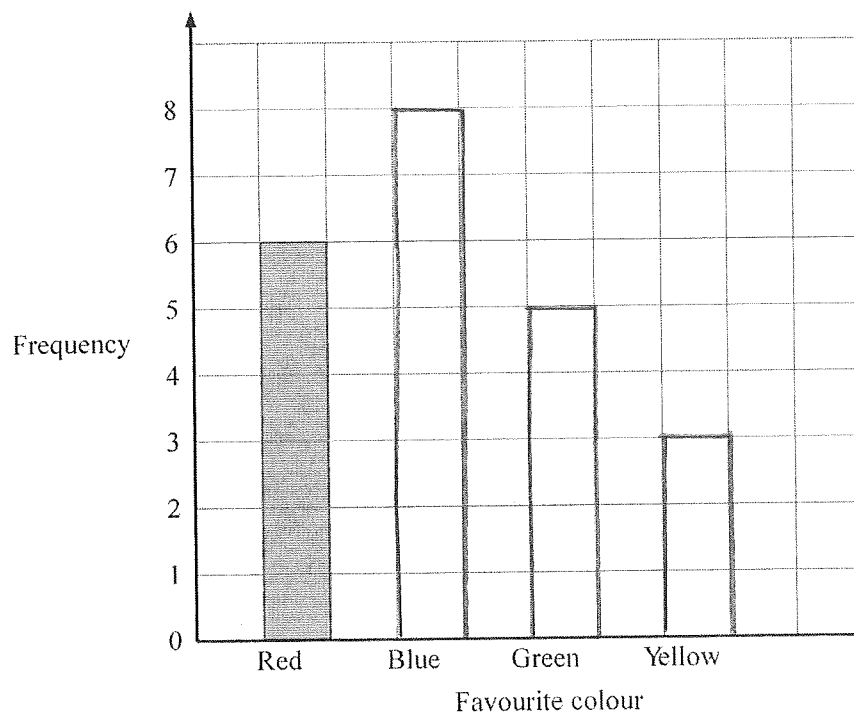
(Total 2 marks)

3. Steve asked his friends to tell him their favourite colour.

Here are his results.

Favourite colour	Tally	Frequency
Red		6
Blue		8
Green		5
Yellow		3

- (a) Complete the bar chart to show his results.



(2)

- (b) Which colour did most of his friends say?

Blue

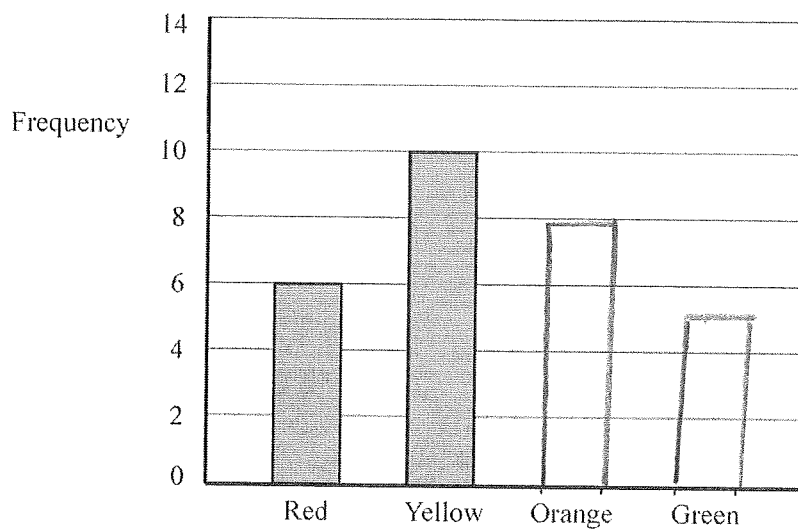
(1)

(Total 3 marks)

4. There are only red, yellow, orange and green sweets in a bag.

Peter recorded the colour of each sweet in the bag.

The bar chart shows some information about his results.



8 sweets were orange.

5 sweets were green.

- (a) Complete the bar chart.

(2)

- (b) Write down the number of red sweets.

6

(1)

- (c) What colour sweet is the mode?

Yellow

(1)

- (d) Work out the total number of sweets in the bag.

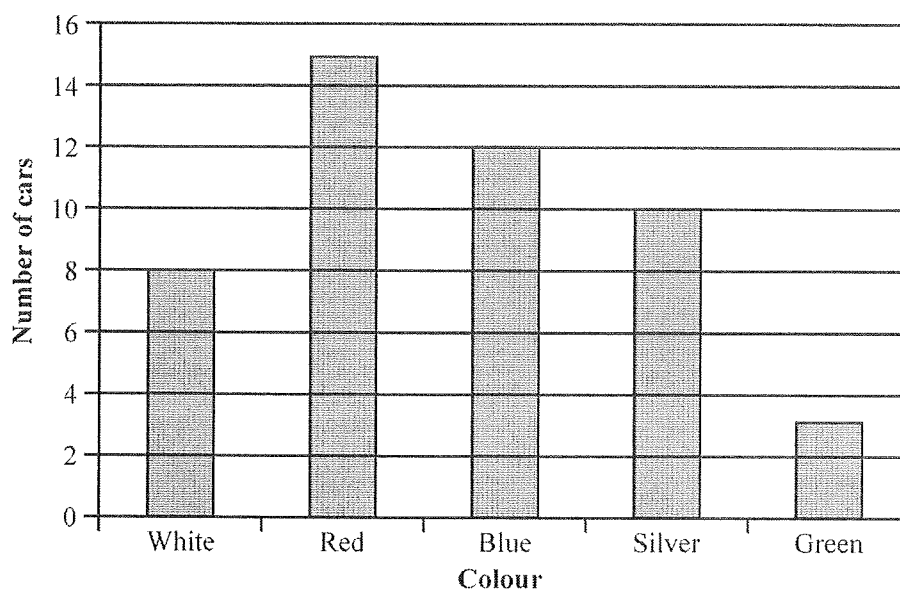
$$6 + 10 + 8 + 5 =$$

29

(1)

(Total 5 marks)

5. Lesley wrote down the colour of each car in the school car park.
The bar chart shows this information.



- (a) Write down the number of blue cars.

.....12.....

(1)

- (b) What colour were most cars?

.....Red.....

(1)

- (c) Work out the total number of cars.

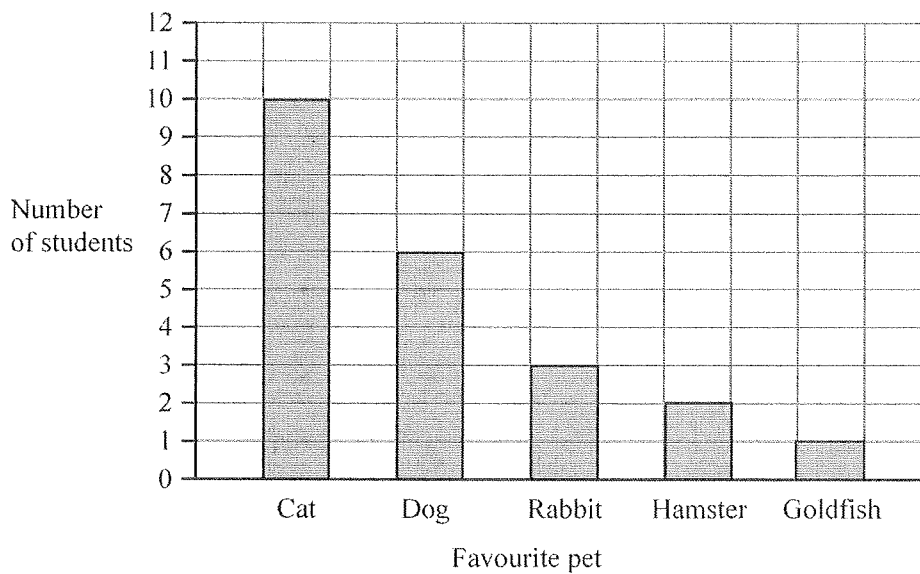
$$8 + 15 + 12 + 10 + 3$$

.....48.....

(1)

(Total 3 marks)

6. Jessica asked some students to tell her their favourite pet. She used the information to draw this bar chart.



- (a) How many students said a rabbit?

3

(1)

- (b) Which pet did most students say?

Cat

(1)

- (c) Work out the number of students that Jessica asked.

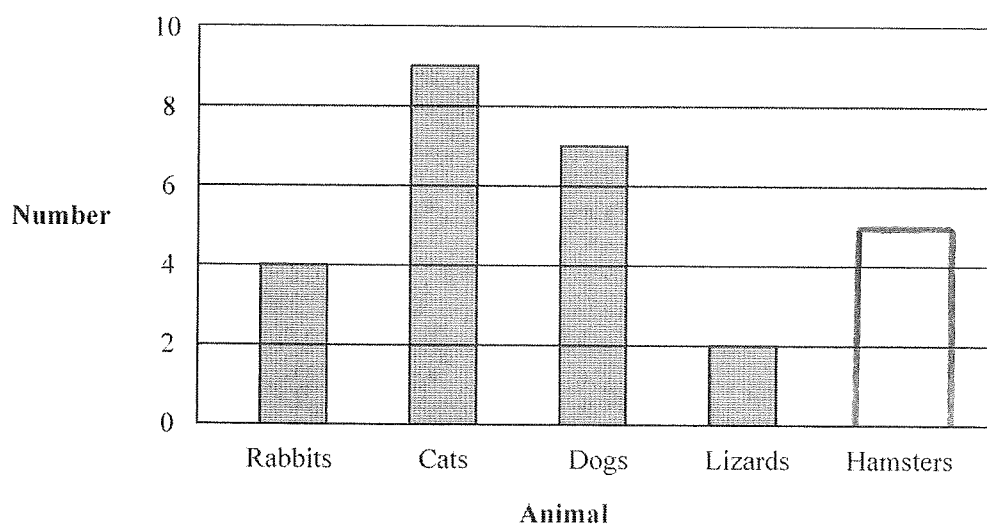
$$10 + 6 + 3 + 2 + 1$$

22

(1)

(Total 3 marks)

7. This bar chart gives information about the numbers of rabbits, cats, dogs and lizards taken to a vet on Monday.



- (a) Write down the number of rabbits taken to the vet on Monday.

4

(1)

- (b) Write down the number of dogs taken to the vet on Monday.

7

(1)

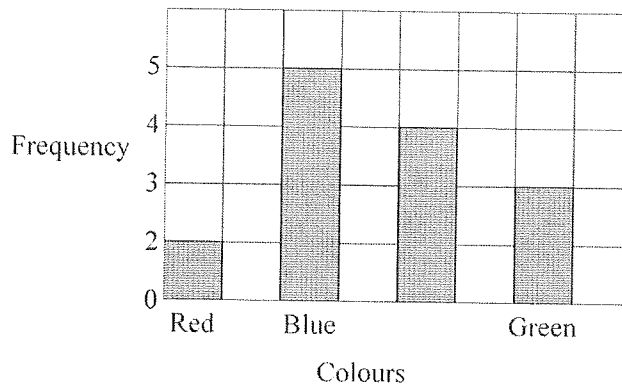
5 hamsters were also taken to the vet on Monday.

- (c) Use this information to complete the bar chart.

(1)
(Total 3 marks)

8. Ray and Clare are pupils at different schools.
They each did an investigation into their teachers' favourite colours.

Here is Ray's bar chart of his teachers' favourite colours.



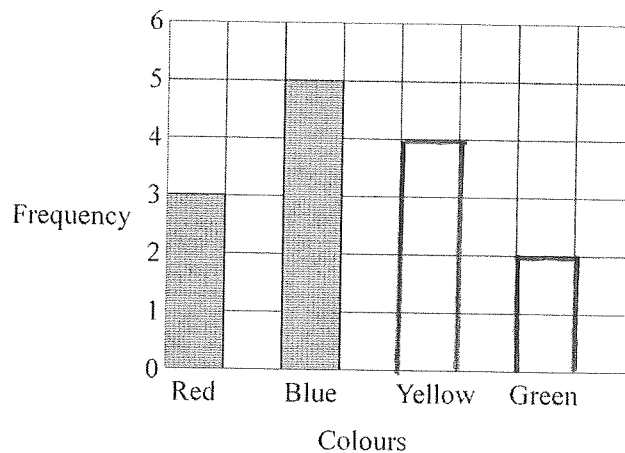
- (a) Write down two things that are wrong with Ray's bar chart.

Missing colour
Unequal frequency values

(2)

Clare drew a bar chart of her teachers' favourite colours.

Part of her bar chart is shown below.



4 teachers said that Yellow was their favourite colour.
2 teachers said that Green was their favourite colour.

- (b) Complete Clare's bar chart.

(2)

- (c) Which colour was the mode for the teachers that Clare asked?

Blue

(1)

- (d) Work out the number of teachers Clare asked.

$$3 + 5 + 4 + 2$$

14

(1)

- (e) Write down the fraction of the number of teachers that Clare asked who said Red was their favourite colour.

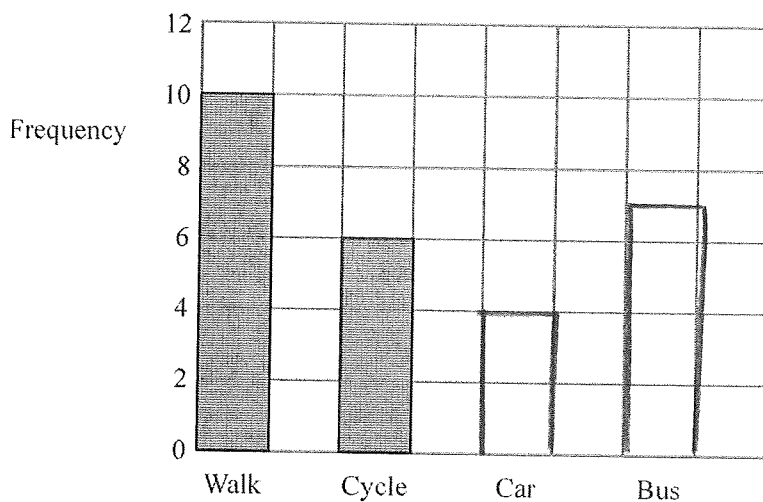
$\frac{3}{14}$

(1)

(Total 7 marks)

9. Sophie asked the students in her class how they travelled to school.

The bar chart shows some information about the results, for everyone in Sophie's class.



4 students travel to school by car.

7 students travel to school by bus.

- (a) Complete Sophie's bar chart.

(2)

- (b) How many students in Sophie's class cycle to school?

6

(1)

- (c) Which method of travelling to school is used by the greatest number of students in Sophie's class?

Walk

(1)

- (d) Work out the total number of students Sophie asked.

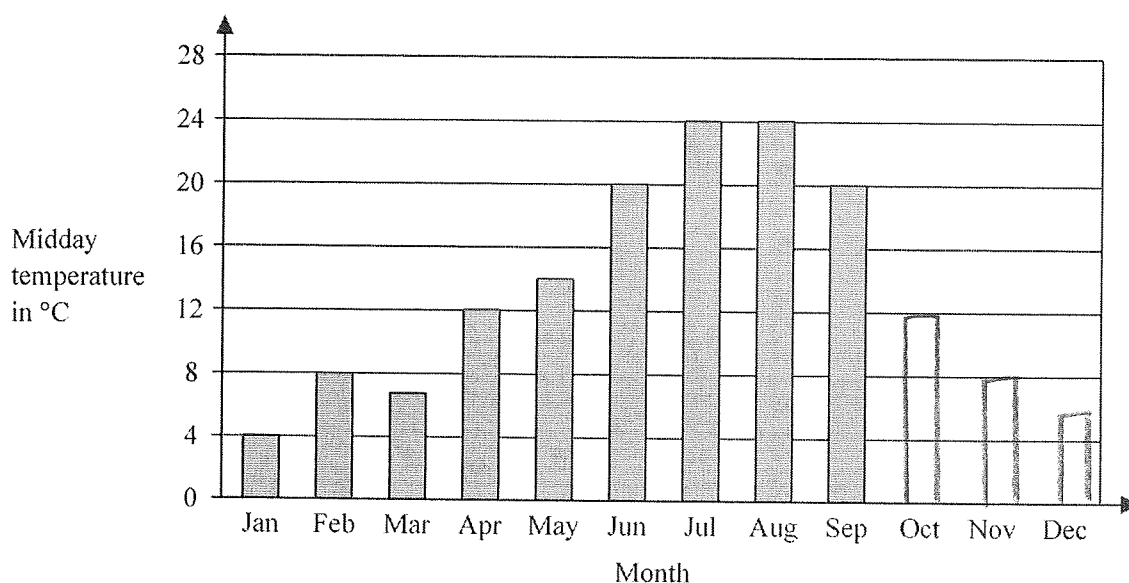
$$10 + 6 + 4 + 7$$

27

(1)

(Total 5 marks)

10. The bar chart shows some information about the midday temperature in Halifax on the first day of some months last year.



Here are the midday temperatures on the first day of October, November and December.

October 12°C
 November 8°C
 December 6°C

- (a) Complete the bar chart to show this information.

(2)

- (b) Which two bars show the highest temperatures?

..... Jul and Aug

(1)

- (c) Work out the range of the temperatures shown on the bar chart.

24 - 4

..... 20 °C

(1)

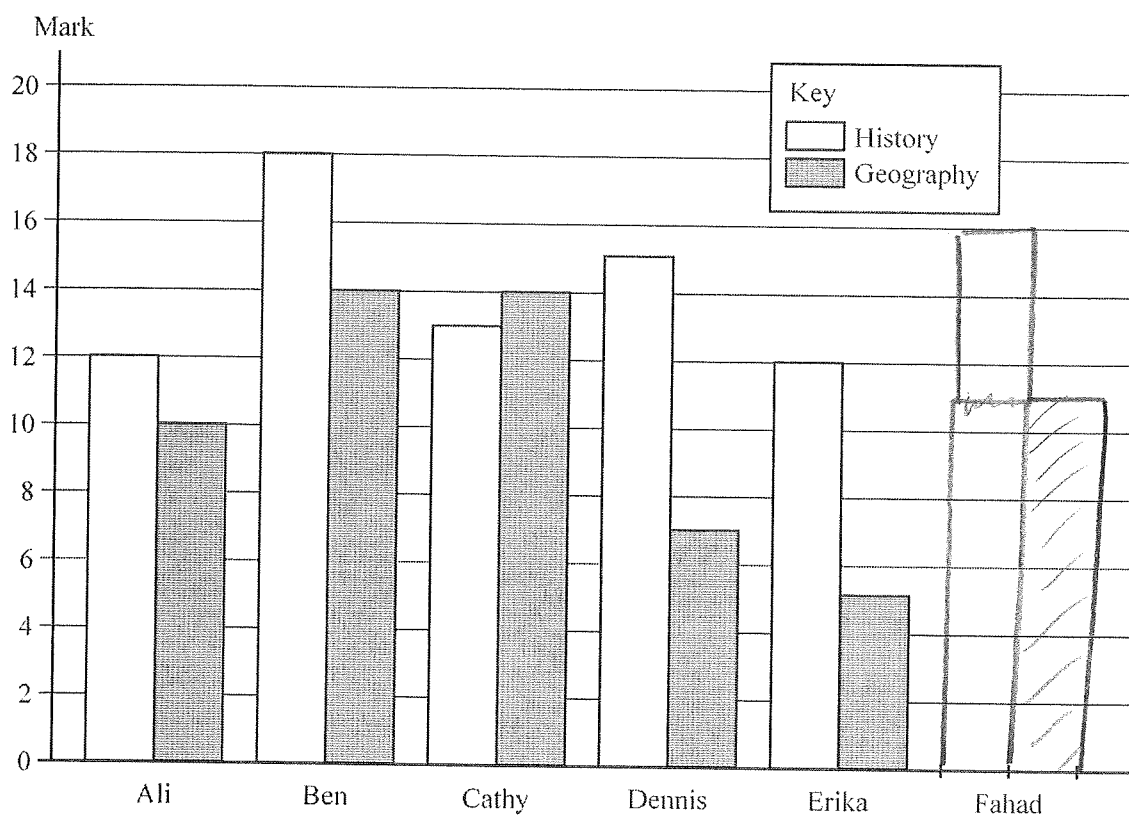
- (d) Describe what happened to the temperatures on the bar chart between March and July.

..... increase

(1)

(Total 5 marks)

11. Six students each sat a history test and a geography test.
The marks of five of the students, in each of the tests, were used to draw the bar chart.



- (a) How many marks did Ali get in his history test?

12

(1)

- (b) How many marks did Dennis get in his geography test?

7

(1)

- (c) One student got a lower mark in the history test than in the geography test.
Write down the name of this student.

Cathy

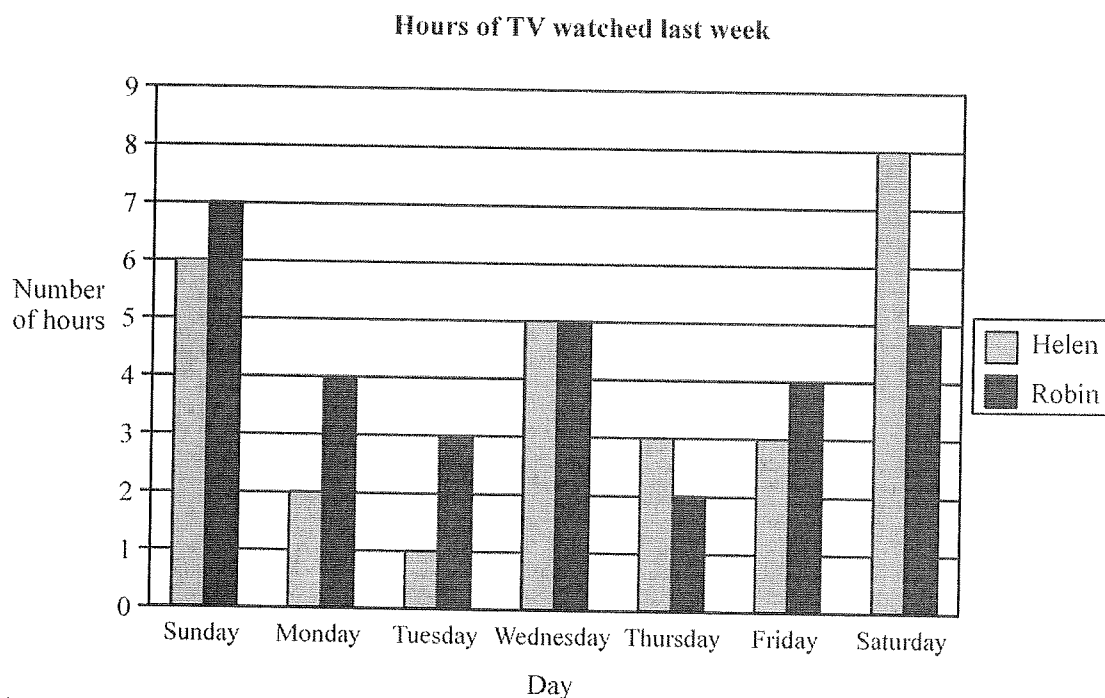
(1)

Fahad got 16 marks in the history test.
She got 11 marks in the geography test.

- (d) Use this information to complete the bar chart.

(2)
(Total 5 marks)

12. Here is a bar chart showing the number of hours of TV that Helen and Robin watched last week.



- (a) Write down the number of hours of TV that Helen watched on Monday.

.....2.....hours

(1)

- (b) On which day did Helen and Robin watch the same number of hours of TV?

.....Wednesday.....

(1)

- (c) (i) Work out the total number of hours of TV that Robin watched on Friday and Saturday.

.....9.....hours

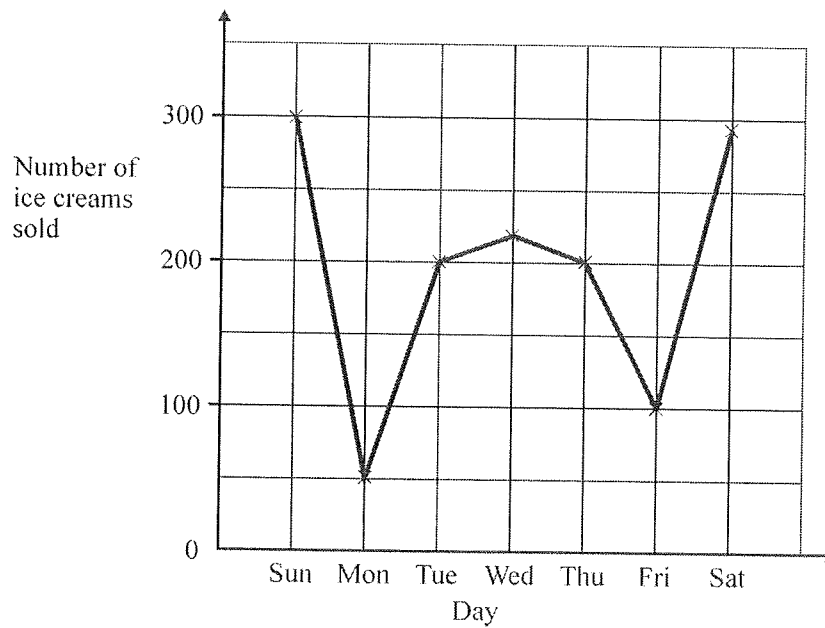
- (ii) Who watched the greater number of hours of TV on Friday and Saturday? Show your working.

Helen = 11

(3)
(Total 5 marks)

Helen

13. The graph shows the number of ice creams sold each day during one week



- (a) How many more ice creams were sold on Tuesday than on Monday?

.....150.....ice creams

(1)

- (b) Explain what might have happened on Monday.

.....cold rain.....
.....

(1)

(Total 2 marks)

14. Daniel carried out a survey of his friends' favourite flavour of crisps.

Here are his results.

Plain ✓ Chicken Bovril Salt & Vinegar Plain
 Salt & Vinegar Plain Chicken Plain Bovril
 Plain Chicken Bovril Salt & Vinegar Bovril
 Bovril Plain Plain Salt & Vinegar Plain

- (a) Complete the table to show Daniel's results.

Flavour of crisps	Tally	Frequency
Plain		8
Chicken		3
Bovril		5
Salt & Vinegar		4

(3)

- (b) Write down the number of Daniel's friends whose favourite flavour was Salt & Vinegar.

.....4.....

(1)

- (c) Which was the favourite flavour of most of Daniel's friends?

.....Plain.....

(1)

(Total 5 marks)