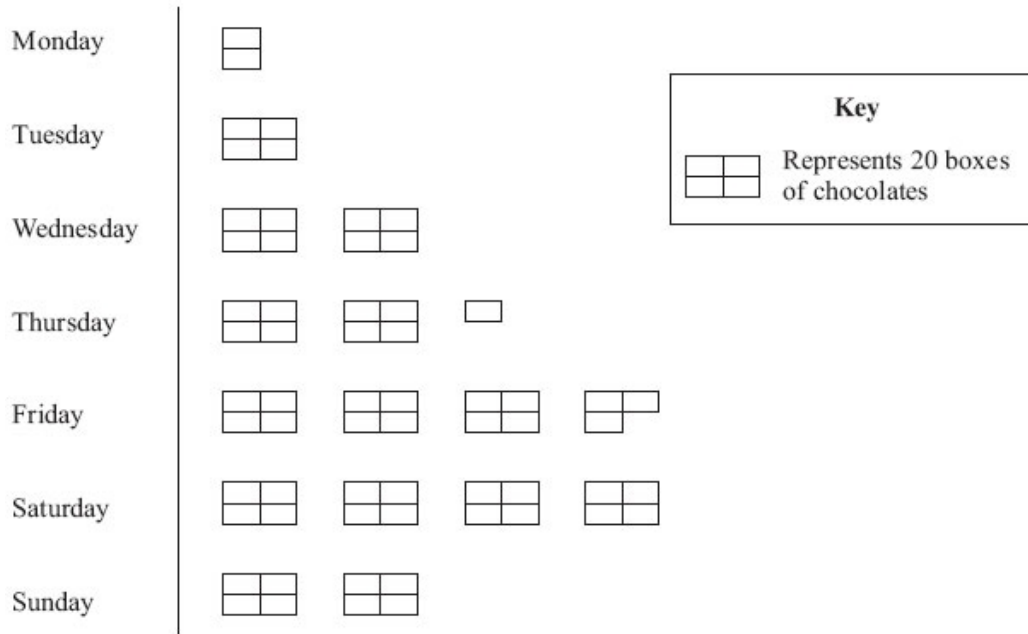## S023 Frequency diagrams 1

Q1.

Here is a pictogram.
It shows the number of boxes of chocolates sold each day last week in a shop.

(a) Write down the number of boxes of chocolates sold

   (i) on Tuesday,

   ....

   (ii) on Thursday.

   ....

(2)

(b) Work out the total number of boxes of chocolates sold last week.

   ....
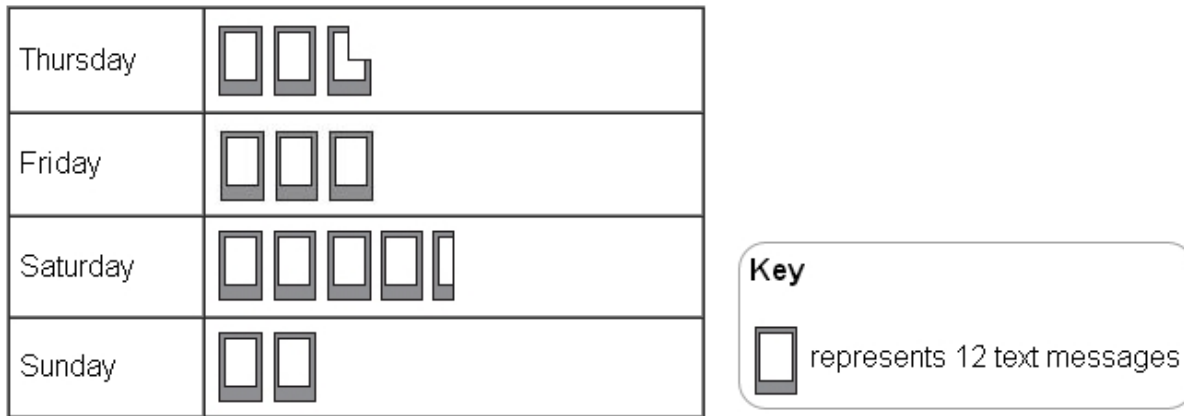
(2)

(Total for Question is 4 marks)

Q2.

The pictogram shows information about the number of text messages Stephanie sent on each of 4 days last week.

Thursday	🔲🔲🔳
Friday	🔲🔲🔲
Saturday	🔲🔲🔲🔲🔳
Sunday	🔲🔲

Key

🔲 represents 12 text messages

(a) Write down the number of text messages Stephanie sent on Sunday.

....

(1)

Stephanie sent more text messages on Saturday than on Friday.

(b) How many more?

....

(2)

It costs Stephanie 8p to send a text message.
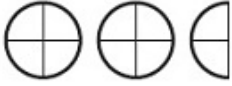
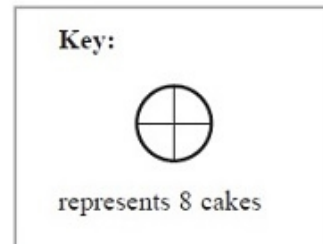(c) Work out the total cost of the text messages she sent on Thursday.

£ . . . .

(3)

(Total for Question is 6 marks)

Q3.

The pictogram shows the number of cakes sold in a shop on Monday, on Tuesday, on Wednesday and on Thursday one week.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Key:

represents 8 cakes

(a) How many cakes were sold on Thursday?

....
(1)

(b) Work out the total number of cakes sold on Monday and Tuesday.

....
(2)

On Friday this week 12 cakes were sold in the shop.

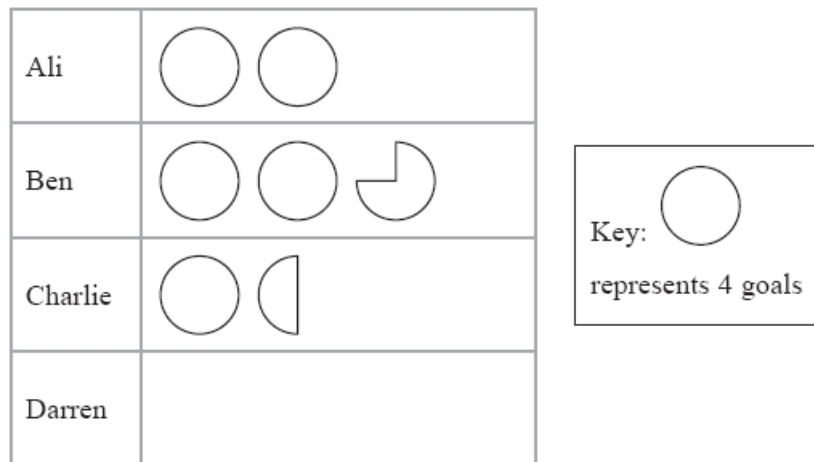(c) Show this information on the pictogram.

(1)

(Total for Question is 4 marks)

Q4.

Here is a pictogram.
It shows the number of goals scored by Ali, by Ben and by Charlie.

(a) Who scored the least number of goals, Ali or Ben or Charlie?

....
(1)

(b) Write down the number of goals scored by Ali.

....
(1)

(c) Write down the number of goals scored by Ben.

....
(1)

Darren scored 10 goals.

(d) Show this information on the pictogram.

(1)

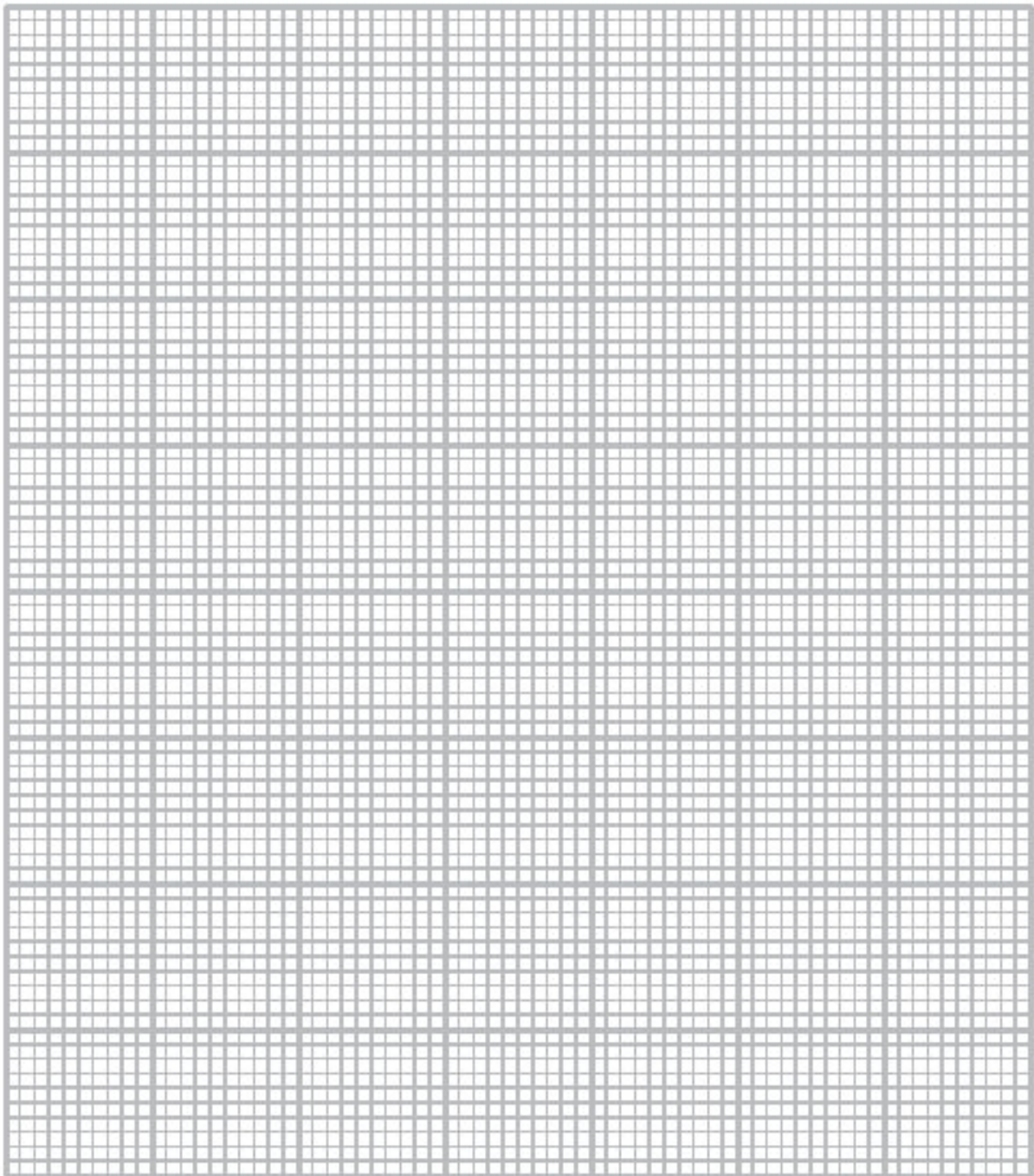**(Total for question = 4 marks)**

Q5.

* Kitty and George sell cars.

The table shows the numbers of cars sold by Kitty and by George in the first four months of 2013

	January	February	March	April
Kitty	2	5	13	10
George	4	7	9	10

Show this information in a suitable diagram.

(Total for Question is 4 marks)

Q6.

* The table shows information about the number of students absent from a school last week.

	Mon	Tues	Wed	Thur	Fri
Year 7	16	14	17	21	26
Year 8	16	18	11	13	20

Simon wants to compare this information.

On the grid, draw a suitable diagram or chart Simon can use.
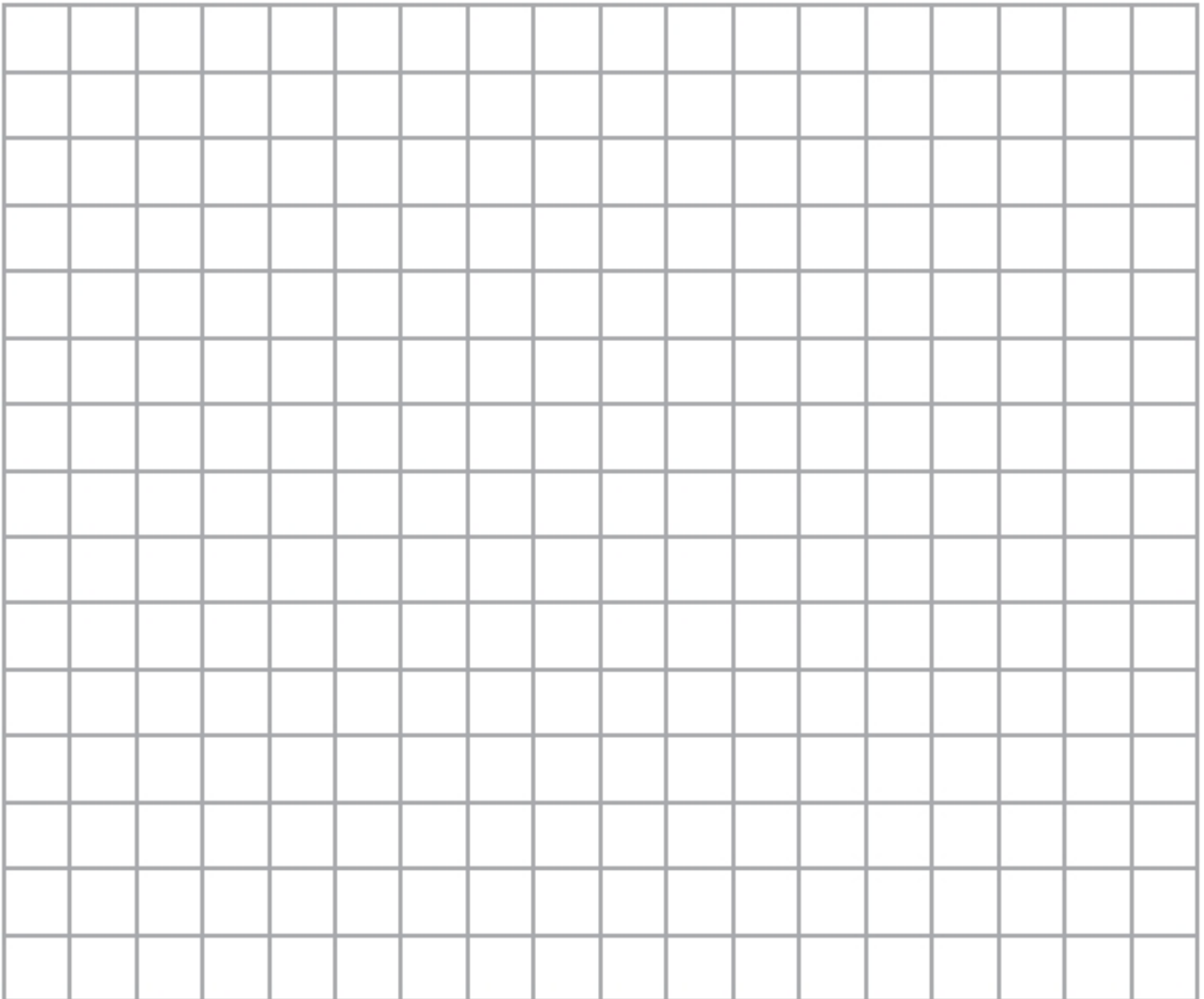
(Total for question = 4 marks)

Q7.

The table shows the number of TVs sold in a shop on each of five days.

Day	Mon	Tue	Wed	Thu	Fri
Number of TVs sold	8	12	9	6	8

David uses this information to draw the graph below.

TVs sold
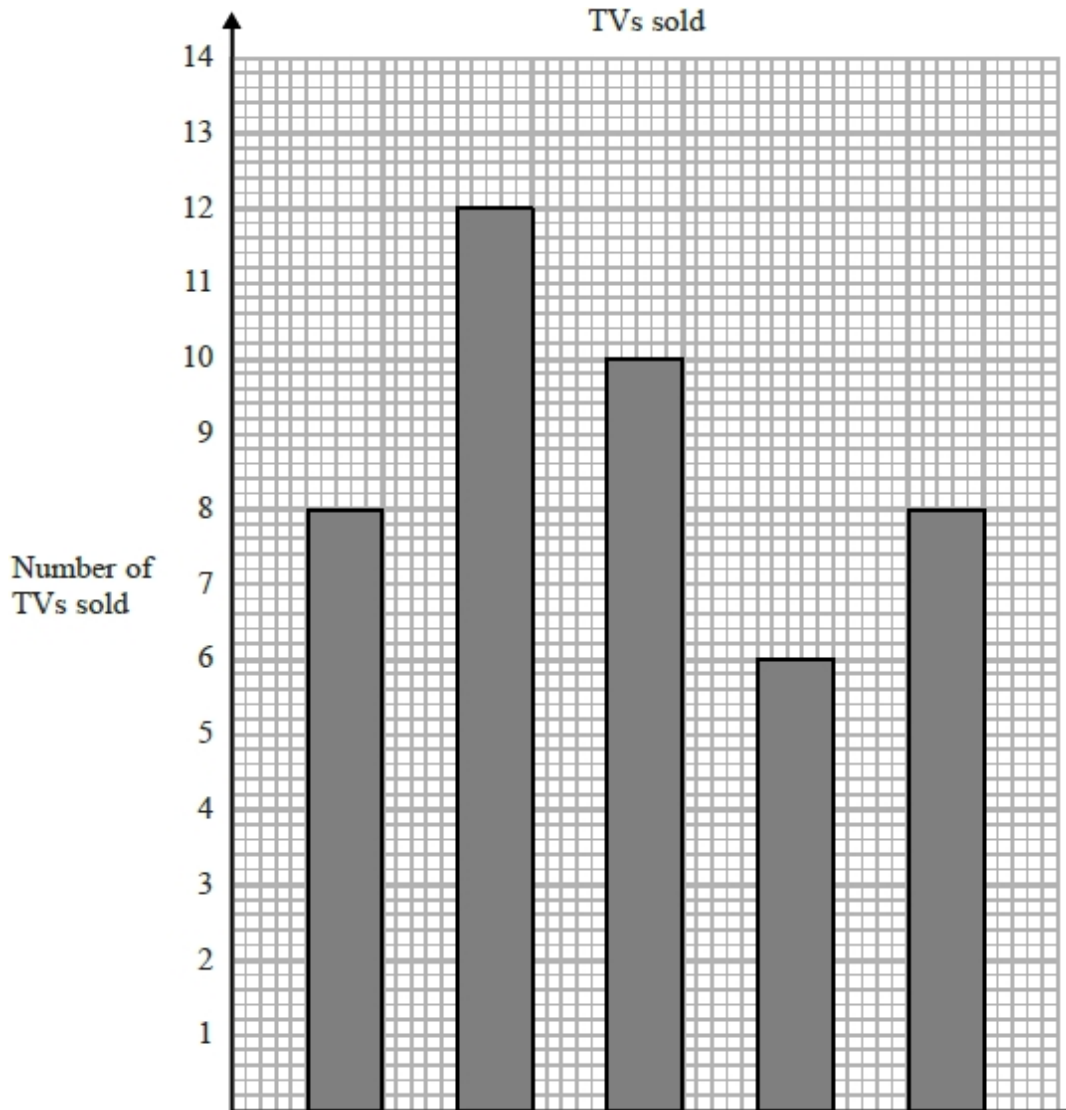
Number of
TVs sold

Write down **three** things wrong with this graph.

1 ....

2 ....

3 ....

(Total for question = 3 marks)

Q8.

Sam and Max work in a shop from Monday to Friday.

Sam draws a graph to show the number of TVs they each sell.

Write down **three** things that are wrong with this graph.

1

....
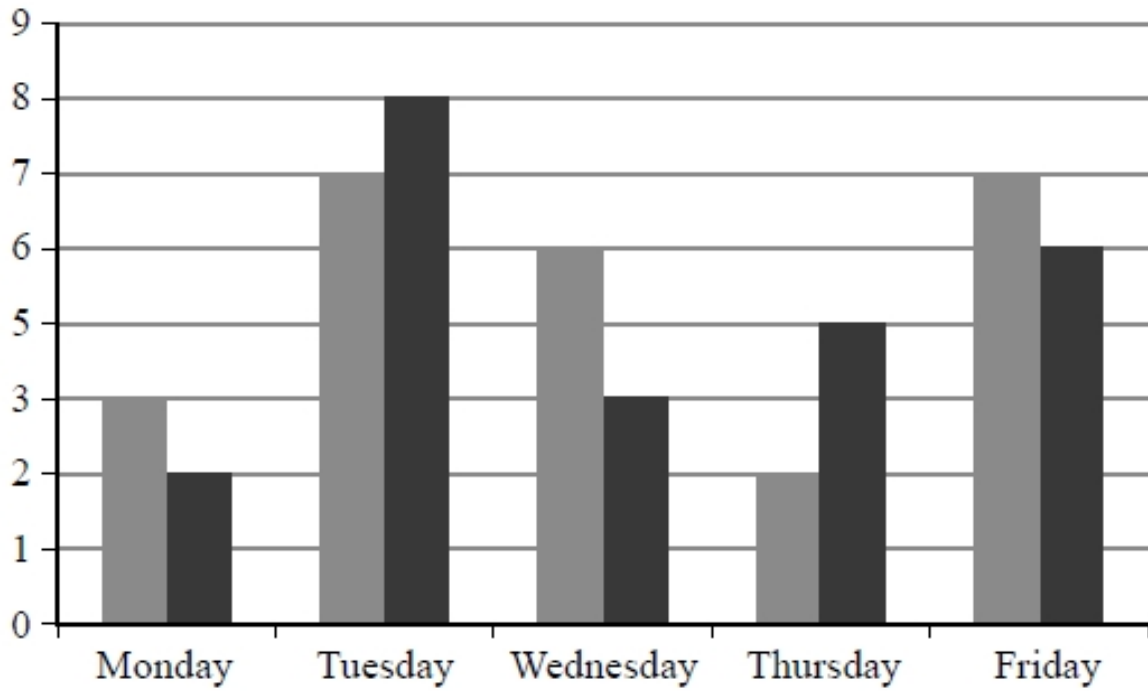
....

2

....

....

3

....

....
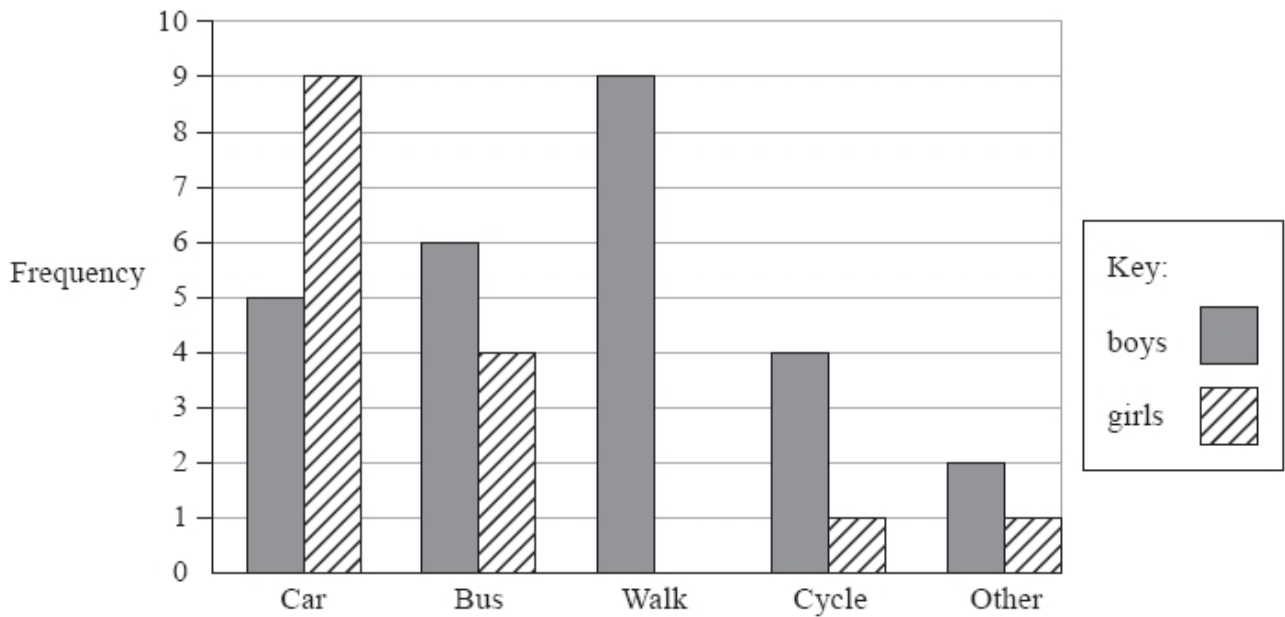
(Total for question = 3 marks)

Q9.

A teacher asks the students in Year 6 what type of transport they use to get to school.
The dual bar chart shows some of the results.

(a) What is the most popular type of transport used by the boys?

....

(1)

7 girls walk to school.

(b) Show this information on the dual bar chart.

(1)

More of the students get to school by car than by bus.

(c) How many more?

....

(1)

The number of students in Year 5 is the same as the number of students in Year 6

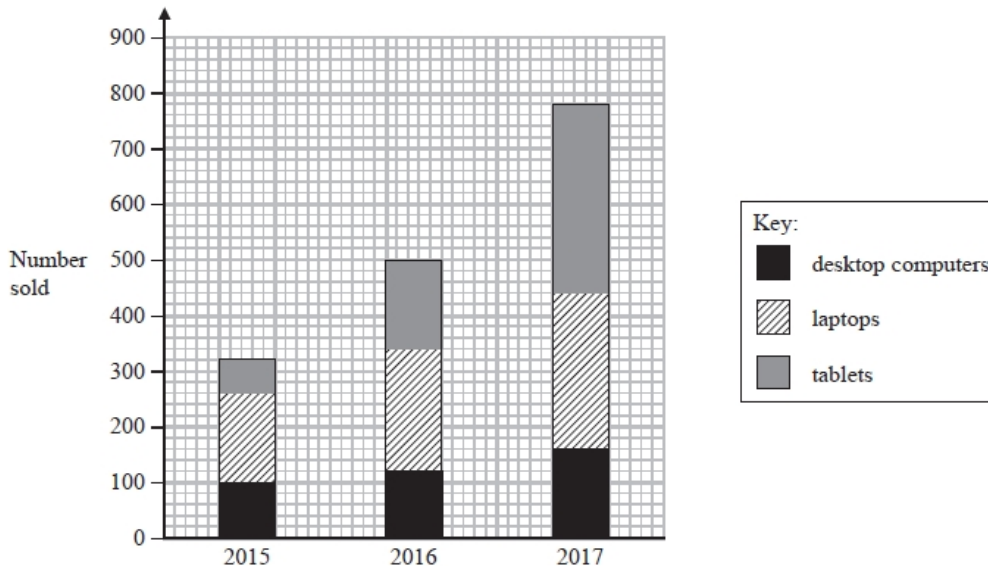(d) What is the total number of students in Years 5 and 6?

....

(2)

(Total for question = 5 marks)

Q10.

A shop sells desktop computers, laptops and tablets.

The composite bar chart shows information about sales over the last three years.

(a) Write down the number of desktop computers sold in 2015

....

(1)

(b) Work out the total number of laptops sold in the 3 years.

....

(3)

(c) State the item that had the greatest increase in sales over the 3 years.

Give a reason for your answer.

....

....

....

(2)

Alex says,

"In 2017, more tablets were sold than desktop computers. This means the shop makes more profit from the sale of tablets than from the sale of desktop computers."

(d) Is Alex correct?
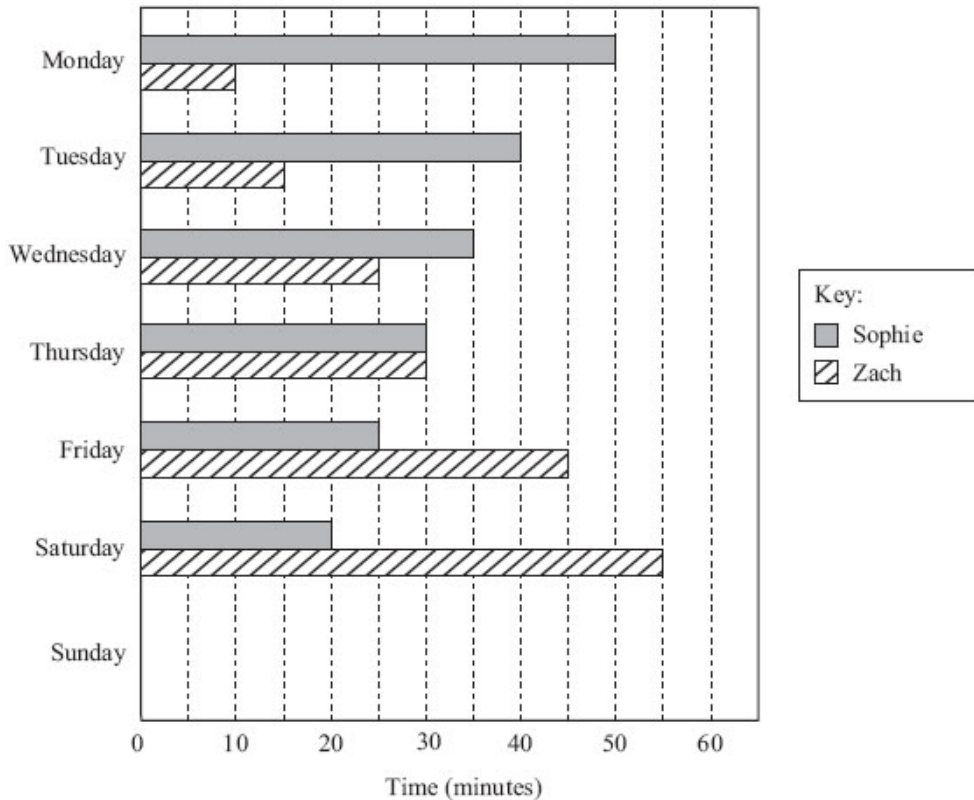
You must justify your answer.

....

....

(1)

(Total for question = 7 marks)

Q11.

The dual bar chart shows information about the amount of time Sophie and Zach spent on the Internet on each of 6 days last week.

On one of these days, Sophie and Zach spent the same amount of time on the Internet.

(a) Which day?

....

(1)

(b) Write down the amount of time that Zach spent on the Internet on Friday.

....

(1)

On Sunday,
Sophie spent 15 minutes on the Internet,
Zach spent 60 minutes on the Internet.

(c) Complete the dual bar chart.

(2)

(d) Using the information in the dual bar chart, compare the amounts of time Sophie spent on the Internet last week to the amounts of time Zach spent on the Internet last week.
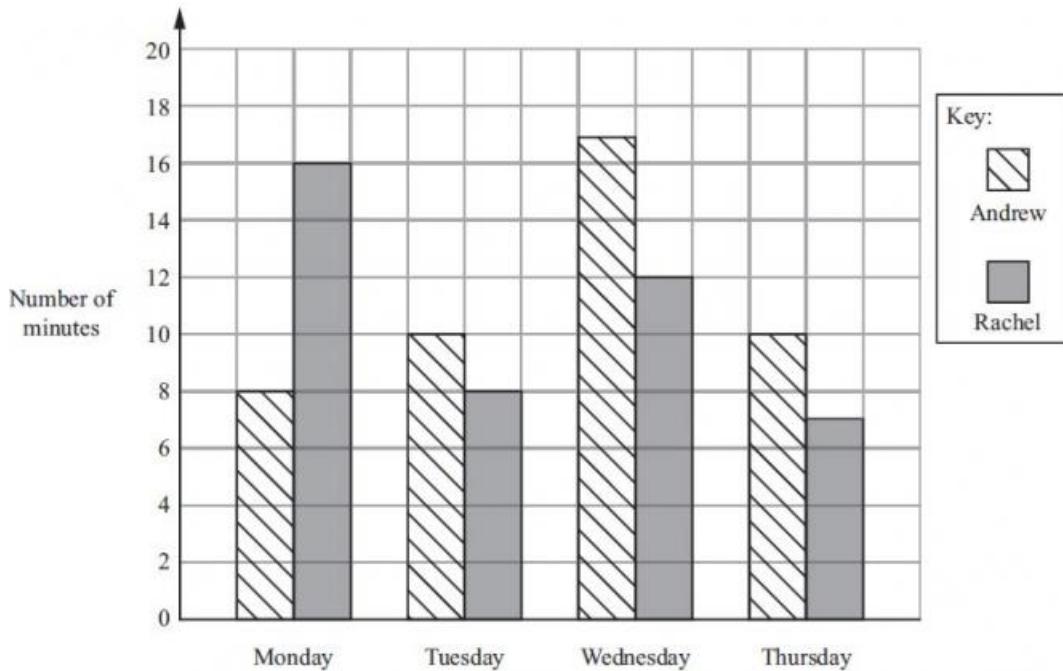
....
....
....

(1)

(Total for Question is 5 marks)

Q12.

Andrew and Rachel recorded the total number of minutes they each spent sending text messages on Monday, on Tuesday, on Wednesday and on Thursday last week.

The dual bar chart shows this information.

(a) How many minutes did Rachel spend sending text messages on Thursday?

. . . . minutes

(1)

On one day, Rachel spent 5 minutes less than Andrew sending text messages.

(b) Which day was this?

....

(1)

Andrew spent more minutes, in total, than Rachel in sending text messages on these four days.
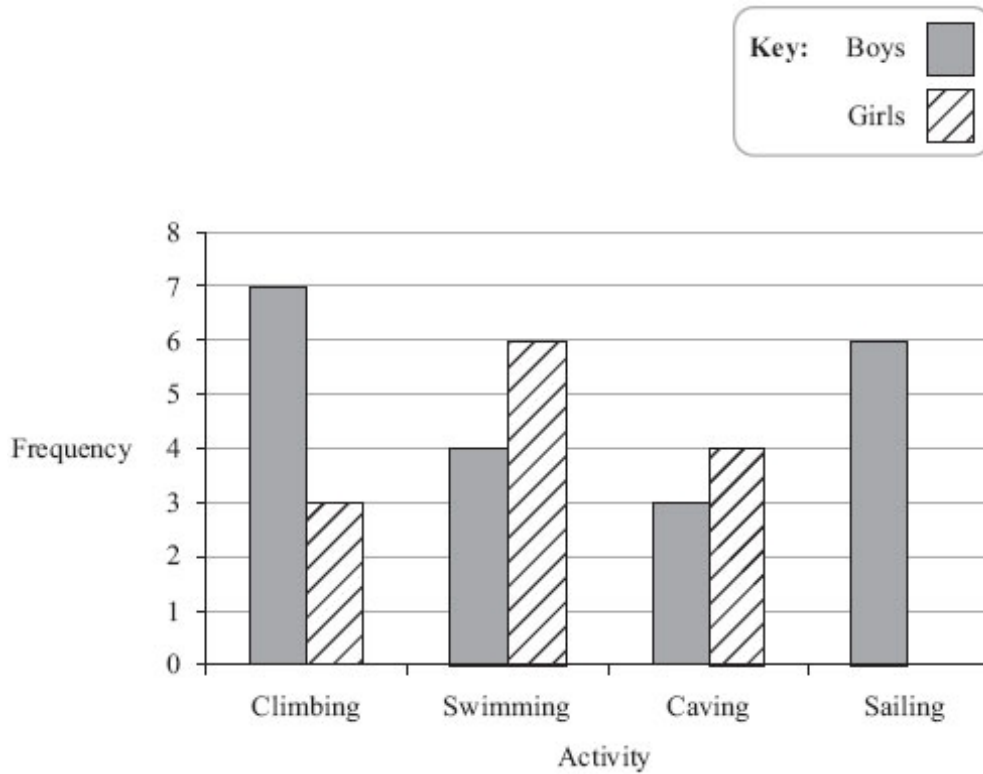
(c) Work out how many more minutes.

. . . . minutes

(3)

(Total for Question is 5 marks)

Q13.

A teacher took some students on an Outdoor Activity trip.
Each student chose one activity to do.

The bar chart shows some information about the activities chosen.

(a) Which activity did most boys choose?

....

(1)

(b) How many boys went on the Outdoor Activity trip?

....

(2)

7 girls went sailing.

(c) Complete the bar chart.

(1)

(Total for Question is 4 marks)