

Pictograms, Bar Charts and Vertical Line Charts

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **24**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

- 1** In a vertical line chart, what does the height of each line show?
Circle your answer.

[1 mark]

the value

the frequency

the total

the range

- 2 The pictogram shows the number of cars sold by a garage on four days.

Monday	
Tuesday	
Wednesday	
Thursday	

Key:  represents 4 cars

- (a) How many cars were sold on Monday?

[1 mark]

Answer _____

- (b) How many cars were sold on Wednesday?

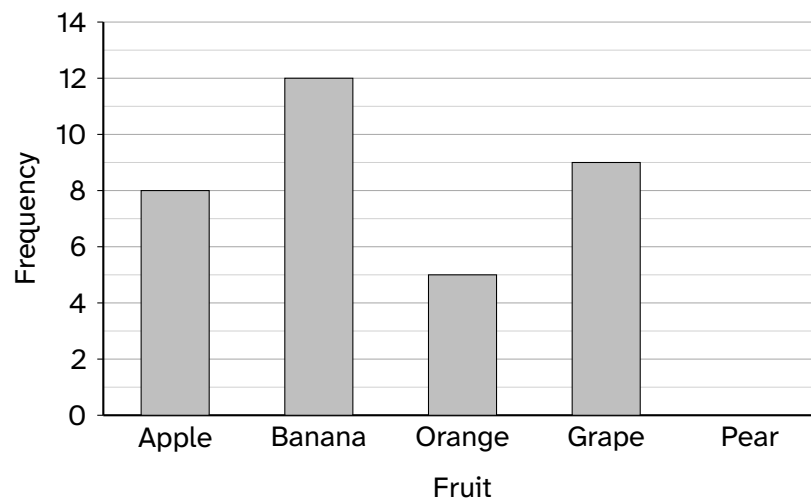
[1 mark]

Answer _____

- (c) 14 cars were sold on Thursday.
Complete the pictogram.

[1 mark]

- 3** Some students were asked to choose their favourite fruit.
The bar chart shows some of the results.



- (a) How many more students chose banana than orange?

[1 mark]

Answer _____

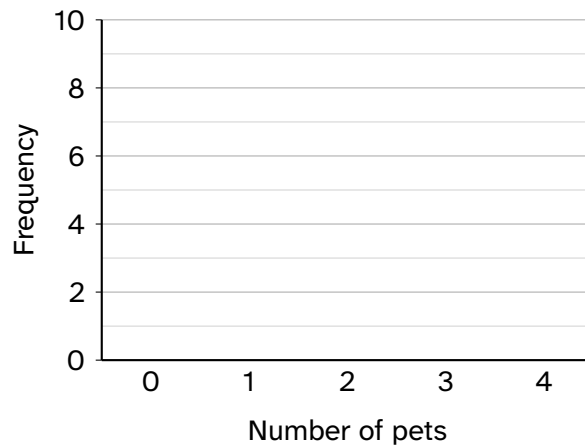
- (b) 40 students were asked altogether.
Draw the bar for pear.

[2 marks]

- 4 The table shows the number of pets owned by some students.

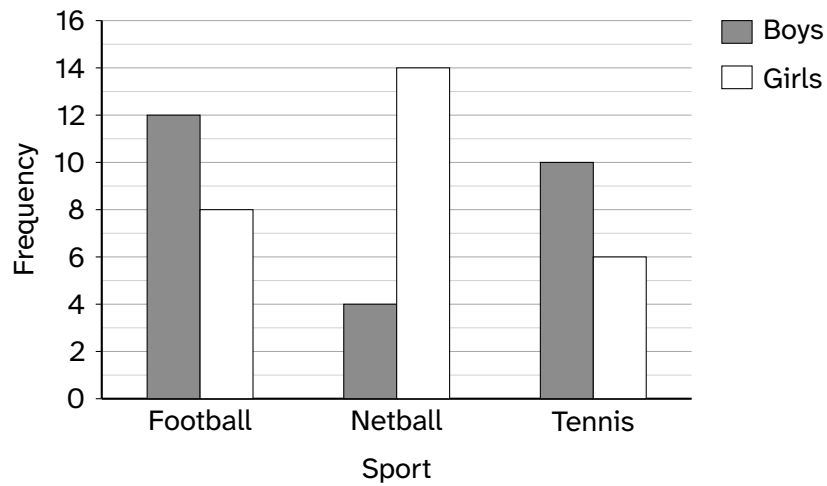
Number of pets	0	1	2	3	4
Frequency	6	9	7	3	1

Draw a vertical line chart to show the data.



[2 marks]

- 5** The dual bar chart shows the favourite sport of some boys and girls.



- (a) Which sport was chosen by more girls than boys?

[1 mark]

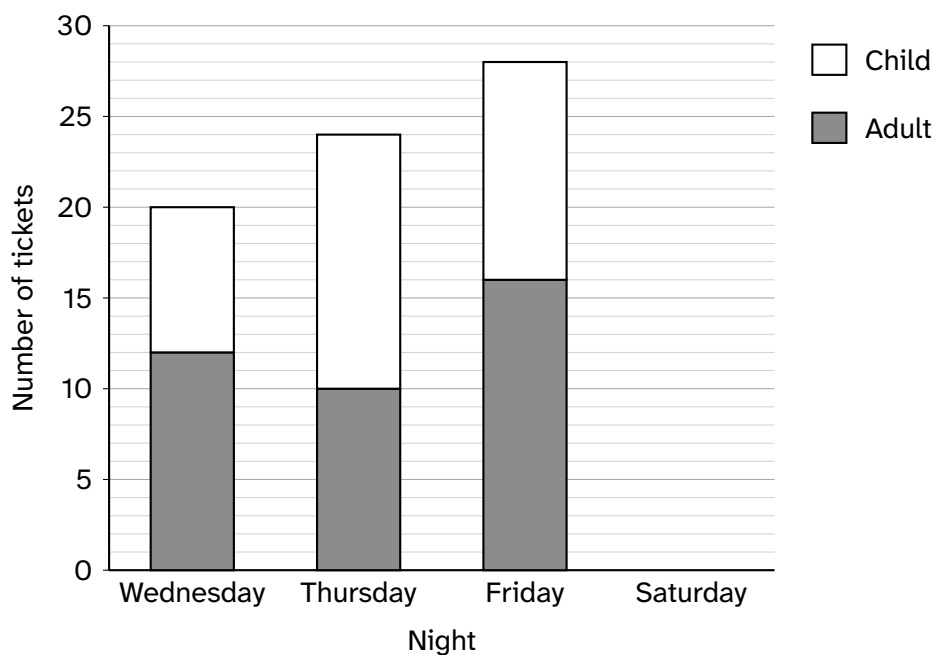
Answer _____

- (b) How many students were asked altogether?

[2 marks]

Answer _____

- 6** A school play was performed on four nights.
The composite bar chart shows the number of adult and child tickets sold on three of the nights.



- (a) How many child tickets were sold on Thursday?

[1 mark]

Answer _____

- (b) On which night were the most tickets sold altogether?

[1 mark]

Answer _____

- (c) How many more adult tickets were sold on Friday than on Wednesday?

[1 mark]

Answer _____

- (d) On Saturday
 24 tickets were sold
 there were 3 times as many child tickets as adult tickets.
 Show this information on the bar chart.

[2 marks]

- 7** A café sold 65 cakes altogether from Monday to Friday.
 The pictogram shows the number of cakes sold on Monday, Tuesday and Wednesday.

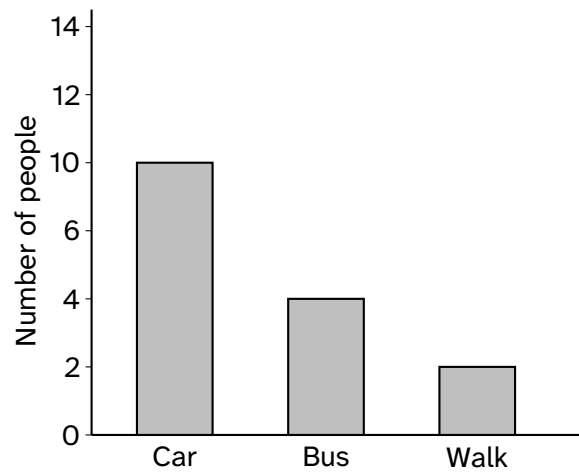
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Key:  represents 4 cakes

On Thursday the café sold twice as many cakes as on Friday.
 Complete the pictogram for Thursday and Friday.

[4 marks]

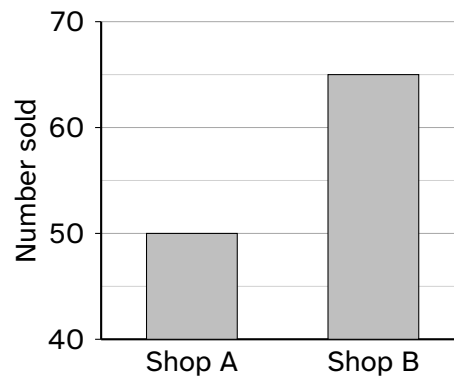
- 8 Noor asked some people how they travel to work.
Each person said car, bus, train or walk.
She draws this bar chart.



Make **two** criticisms of her bar chart.

[2 marks]

- 9 The bar chart shows the number of televisions sold by two shops.



Give a reason why the bar chart is misleading.

[1 mark]
