



1

A bar chart shows the favourite sport of some pupils. The scale on the vertical axis goes up in 5s. The heights of the bars are in the table.

Sport	Height of bar
Football	25
Tennis	15
Swimming	20
Rugby	10

How many pupils chose tennis?

(1 mark)

tennis bar height = 15

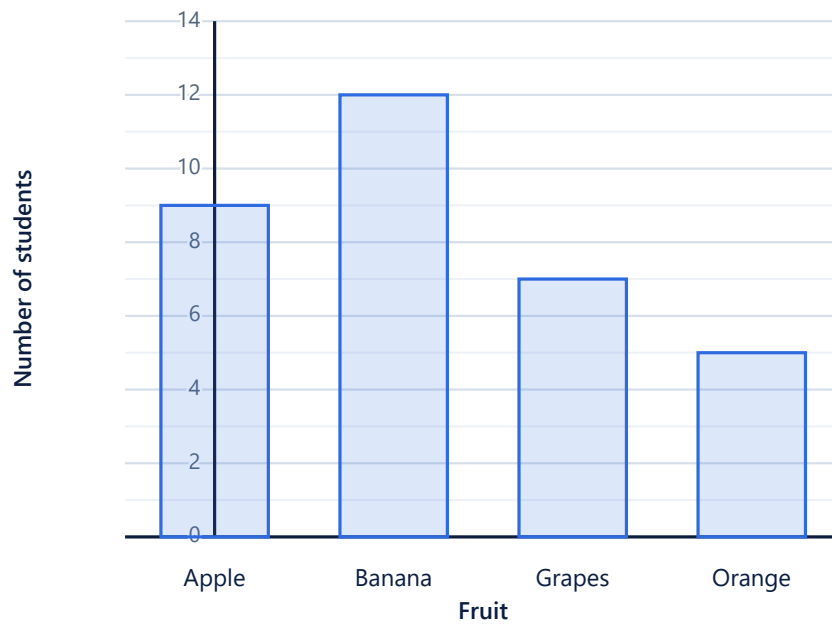
15 pupils

2

A bar chart shows the favourite fruit of a group of students. The table gives the height of each bar.

Fruit	Number of students
Apple	9
Banana	12
Grapes	7
Orange	5

Write down the modal fruit.



(1 mark)

The mode is the category with the tallest bar

Banana has the highest frequency, 12, so the modal fruit is

banana

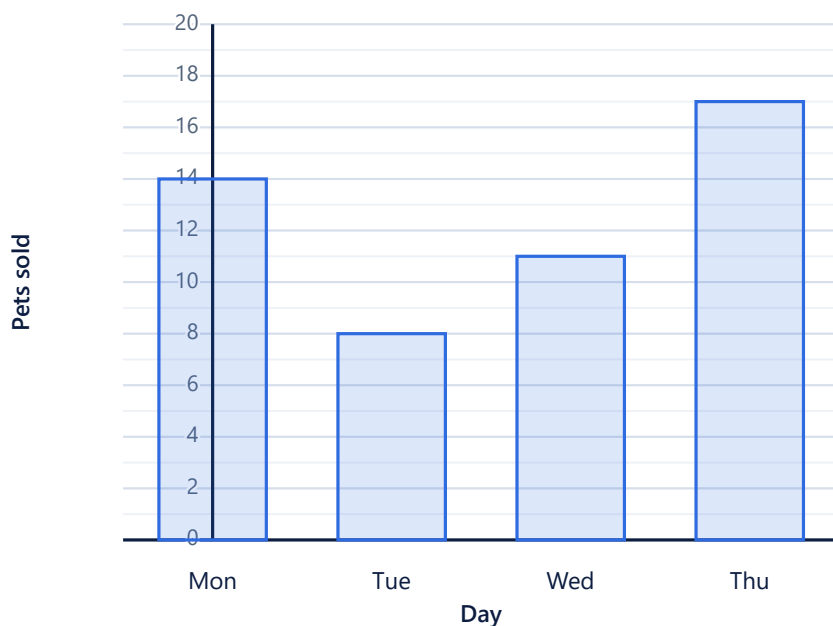
Banana

3

A bar chart shows the number of pets sold by a pet shop on four days. The table gives the height of each bar.

Day	Pets sold
Monday	14
Tuesday	8
Wednesday	11
Thursday	17

- Write down the day on which the fewest pets were sold.
- Work out how many more pets were sold on Thursday than on Tuesday.



(2 marks)

a) The shortest bar is Tuesday, with 8 pets

b) $17 - 8 = 9$ more pets

4

A bar chart shows the number of books borrowed from a library each day. The heights of the bars are in the table.

Day	Mon	Tue	Wed	Thu
Books borrowed	12	20	8	16

- On which day were the most books borrowed?
- How many more books were borrowed on Tuesday than on Wednesday?

(2 marks)

a)

tallest bar = 20

Tuesday

b)

$20 - 8 = 12$

12 more books

- 5 The vertical axis of a bar chart is labelled 0, 10, 20, 30. There are 5 equal small squares between each label.

The bar for cycling goes up to the 3rd small square above 20.

How many pupils cycle?

(2 marks)

$$10 \div 5 = 2 \text{ for each small square}$$

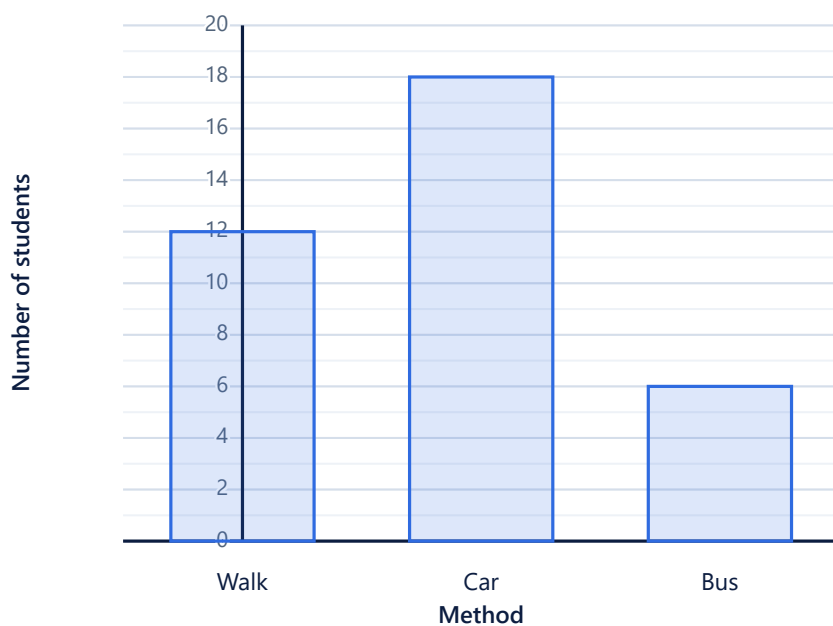
$$20 + 3 \times 2 = 20 + 6$$

26 pupils

- 6 A bar chart shows how the students in class 8R travel to school. The table gives the height of each bar.

Method	Number of students
Walk	12
Car	18
Bus	6

- a. Write down the number of students who travel by bus.
b. Write down the ratio of the number of students who walk to the number who travel by car. Give your ratio in its simplest form.



(3 marks)

a) The bus bar has height 6

b) Walk

Car = 12 : 18. Divide both sides by 6 to get 2 : 3

7

40 pupils were asked how they travel to school. The table shows the heights of the bars on the bar chart. The bar for cycling has not been drawn.

Travel	Walk	Bus	Car	Cycle
Number of pupils	18	14	5	?

a. Work out the height of the bar for cycling.

b. Ali says, "The bus is the most popular because it has the tallest bar." Is Ali correct? Give a reason.

(3 marks)

a)

$$18 + 14 + 5 = 37$$

$$40 - 37 = 3$$

3

b)

walk = 18, bus = 14

No - walk has the tallest bar

8

Tickets for a school play cost £4 each. The table shows the number of tickets sold on each of four days. 70 tickets were sold altogether. The bar for Thursday has not been drawn.

Day	Mon	Tue	Wed	Thu
Tickets sold	15	22	18	?

a. Work out the number of tickets sold on Thursday.

b. Work out the total money taken from all 70 tickets.

(3 marks)

a)

$$15 + 22 + 18 = 55$$

$$70 - 55 = 15$$

15 tickets

b)

$$70 \times 4 = 280$$

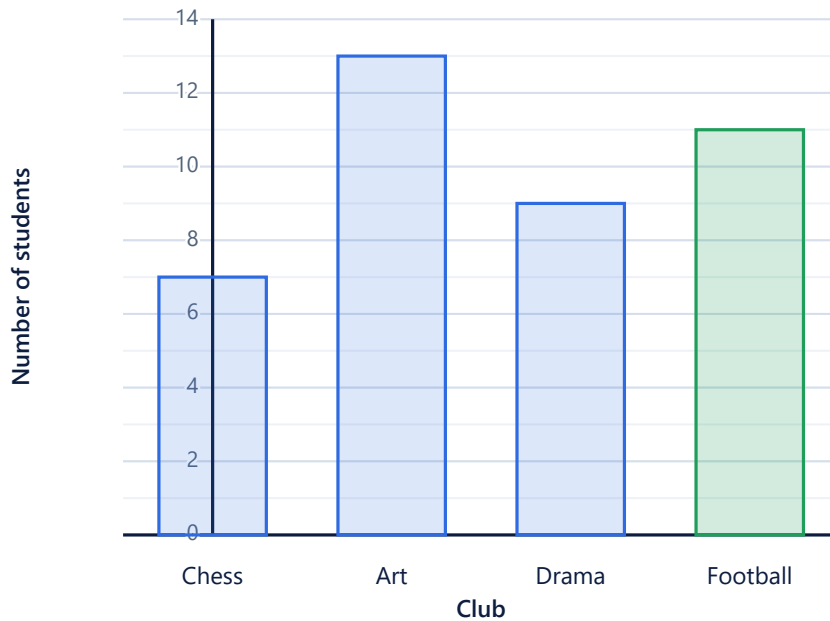
£280

9

40 students each joined exactly one after-school club. A bar chart shows the numbers for three of the clubs. The table gives the height of each of these bars.

Club	Number of students
Chess	7
Art	13
Drama	9
Football	?

- Work out the number of students who joined the football club.
- Write down the modal club.



(3 marks)

a) $\text{Chess} + \text{Art} + \text{Drama} = 7 + 13 + 9 = 29 \text{ students}$

Football

$40 - 29 = 11 \text{ students}$

b) Art has the highest frequency, 13, so the modal club is art

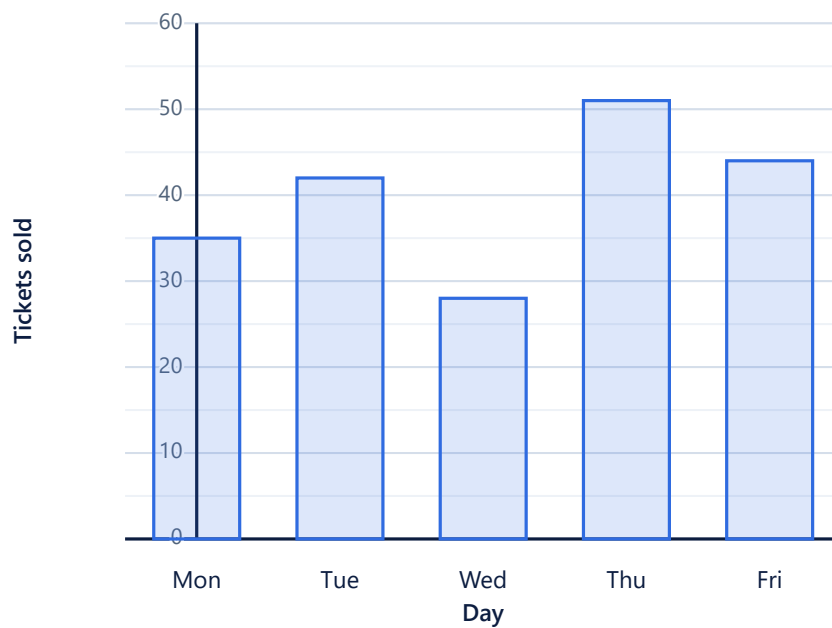
10

A bar chart shows the number of raffle tickets a school sold each day for a week. The table gives the height of each bar.

Day	Tickets sold
Monday	35
Tuesday	42
Wednesday	28
Thursday	51
Friday	44

Each ticket costs 50p.

Work out the total amount of money the school took from ticket sales. Give your answer in pounds.



(3 marks)

Total tickets

$$35 + 42 + 28 + 51 + 44 = 200$$

Total money

$$200 \times 50p = 10000p = £100$$

£100

11

30 toy cars are red, blue, green or yellow. The table shows the heights of the bars on a bar chart. The bar for yellow has not been drawn.

Colour	Red	Blue	Green	Yellow
Number of cars	12	8	4	?

- Work out the height of the bar for yellow.
- What fraction of the cars are blue? Give your answer in its simplest form.
- Write the ratio of red cars to green cars in its simplest form.

(4 marks)

a)

$$12 + 8 + 4 = 24$$

$$30 - 24 = 6$$

6

b)

blue = 8 out of 30

$$\frac{8}{30} = \frac{4}{15} (\div 2)$$

$\frac{4}{15}$

c)

$$12 : 4$$

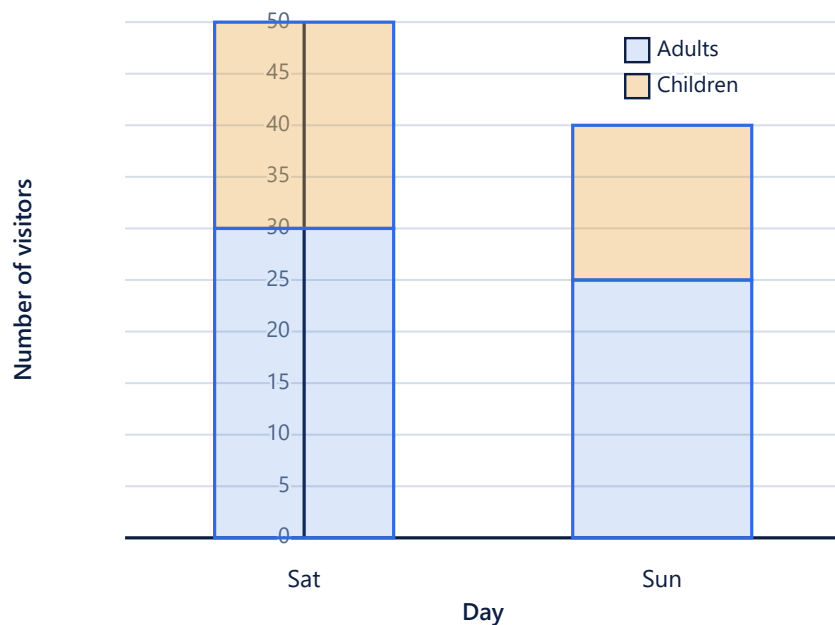
$\div 4$ both sides

3 : 1

12

The composite bar chart shows the number of adults and the number of children who visited a museum on Saturday and on Sunday.

- Work out the number of children who visited on Saturday.
- Write down the ratio of the number of adults on Saturday to the number of adults on Sunday.
Give your ratio in its simplest form.



(4 marks)

a) The Saturday bar reaches 50 in total and the adults section reaches 30, so
 $\text{children} = 50 - 30 = 20$

b) Adults on Saturday = 30, adults on Sunday = 25
 30

$25 = 6 : 5$ after dividing both sides by 5