

BAR CHARTS

CONTENT REFERENCES:
4S1, 4S2

KS2 SATS

PAST QUESTIONS BY TOPIC

1

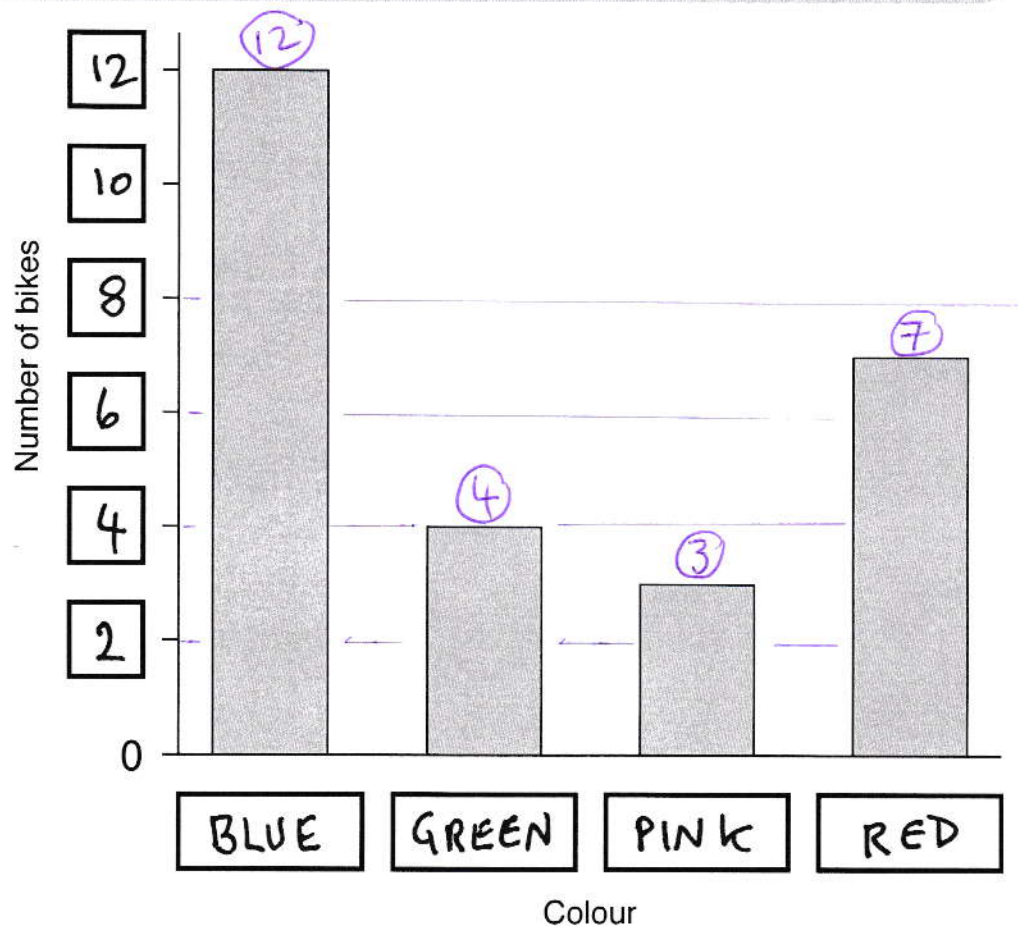
Robbie collected information about the colours of some bikes.

Here are his results.

| Colour | Number of bikes |
|--------|-----------------|
| green | 4 |
| red | 7 |
| blue | 12 |
| pink | 3 |

This bar graph shows the information from the table.

Fill in **all** the missing labels.

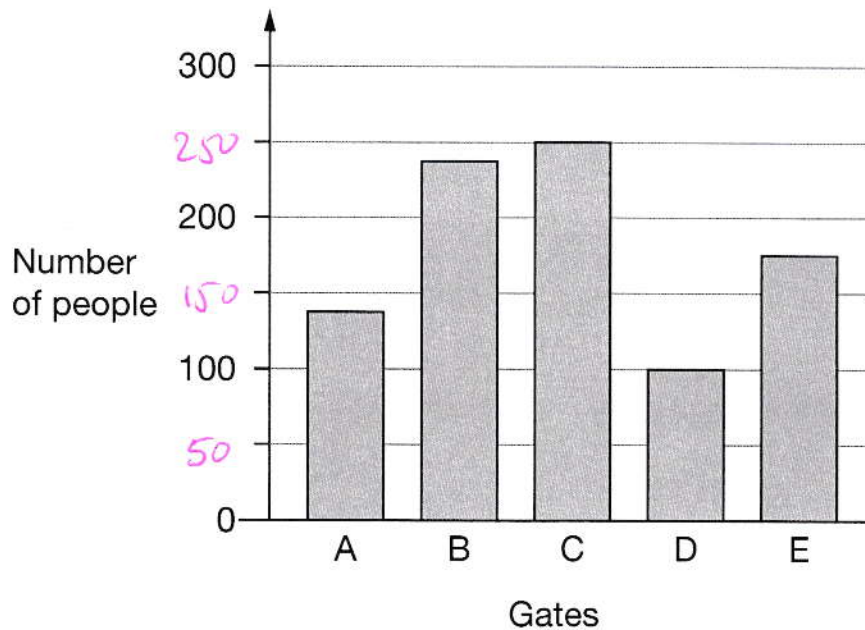


[2 marks]

2

There are five entry gates at an open air concert.

This bar chart shows how many people went through each gate.



How many **more** people went through gate C than gate D?

$$C \rightarrow 250$$

$$D \rightarrow 100$$

$$\frac{250}{100} = 150 \text{ DIFFERENCE}$$



150

How many gates had **fewer than 150** people go through?

'A' AND 'D'



2

[2 marks]

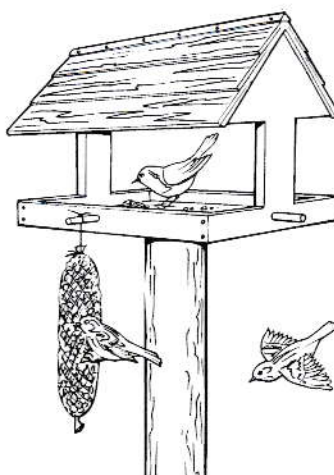
3

Rosie collects data about birds visiting a bird table.

Here are her results.

| | |
|-----------|--|
| Blackbird | |
| Sparrow | |
| Robin | |
| Blue tit | |
| Other | |

3
6



Draw **two** more lines to complete the graph.

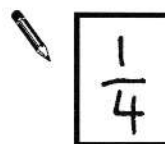


Rosie saw **20 birds** altogether.

What **fraction** of the birds were blackbirds?



$$\frac{5}{20} = \frac{1}{4}$$

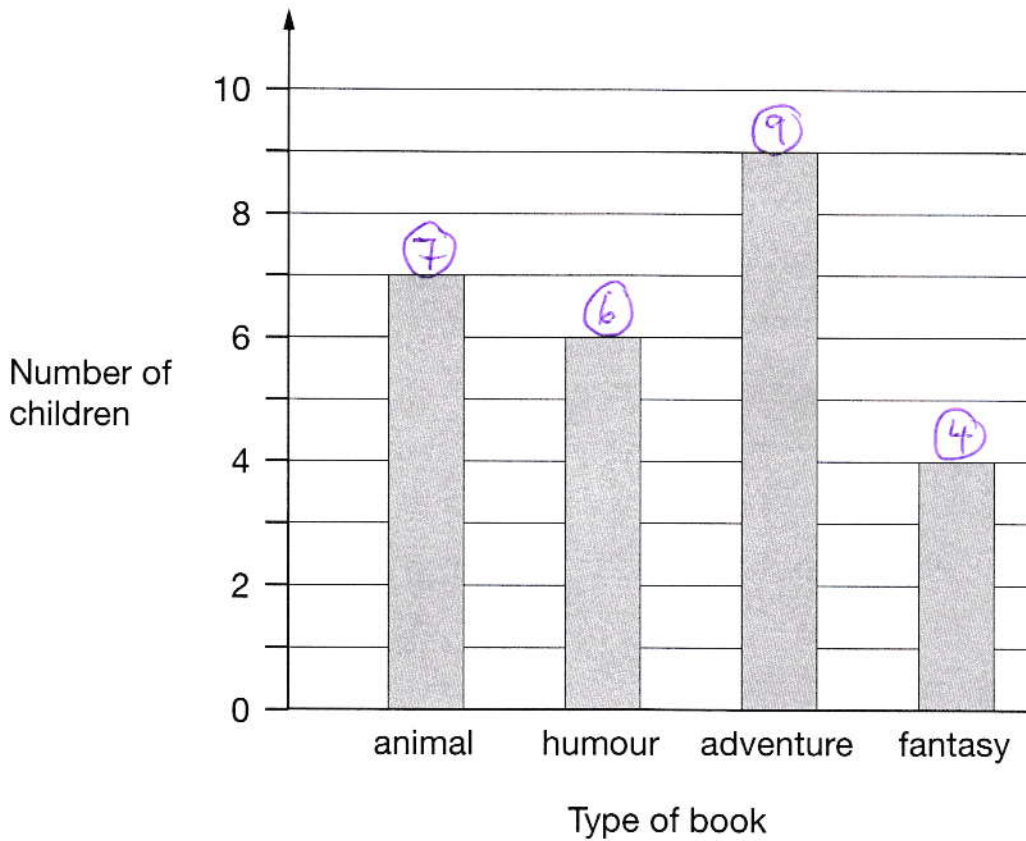


[2 marks]

4

Class 6 did a survey of their favourite types of story book.

Here are their results.



How many more children chose **adventure** books than **fantasy** books?

$$9 - 4$$



| |
|---|
| 5 |
|---|

Five girls chose **animal** books.

How many **boys** chose animal books?

$$7 - 5$$



| |
|---|
| 2 |
|---|

[2 marks]

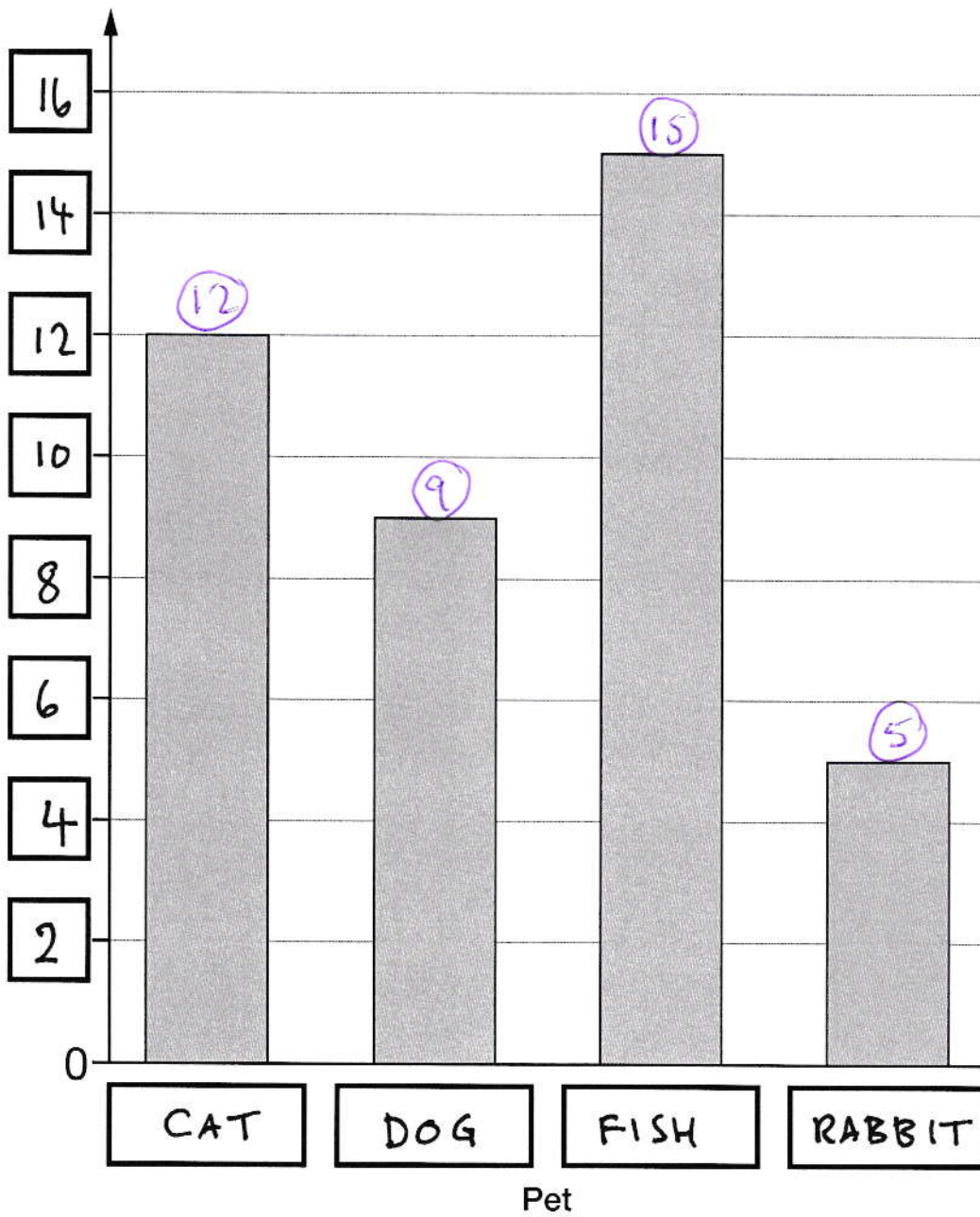
5 Alfie collected information about the pets owned by children in his class.

Here are his results.

| Pet | Number of pets |
|--------|----------------|
| dog | 9 |
| cat | 12 |
| rabbit | 5 |
| fish | 15 |

This bar chart shows the information from the table.

Fill in **all** the missing labels.

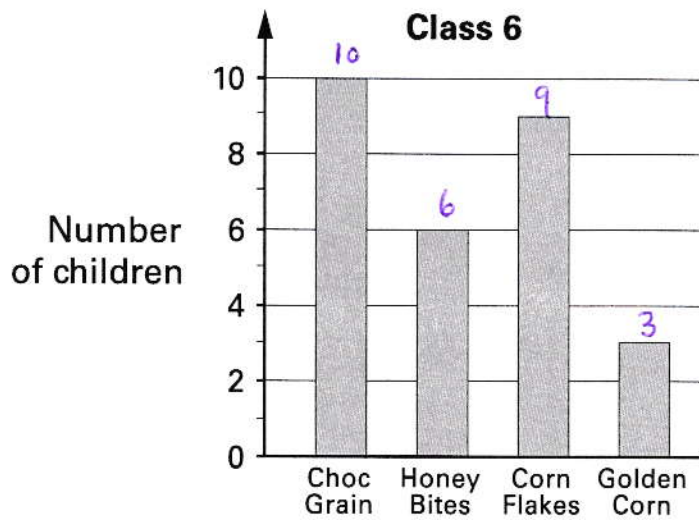


[2 marks]

6

Tom does a survey of children's favourite breakfast cereals.

These are the results for Class 6



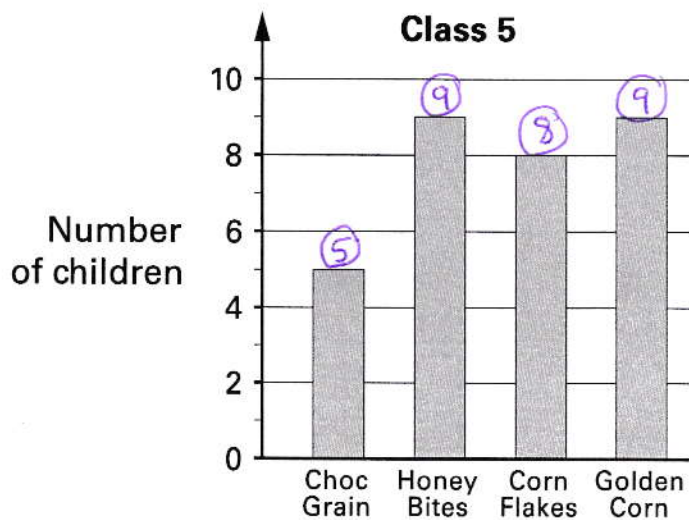
How many **more** children in Class 6 prefer **Choc Grain** than **Golden Corn**?

$$10 - 3$$



7

These are the results for Class 5



How many children in **both** classes like **Honey Bites** best?

$$6 + 9$$

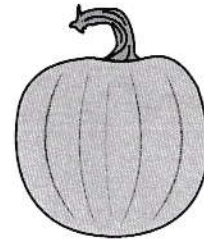


15

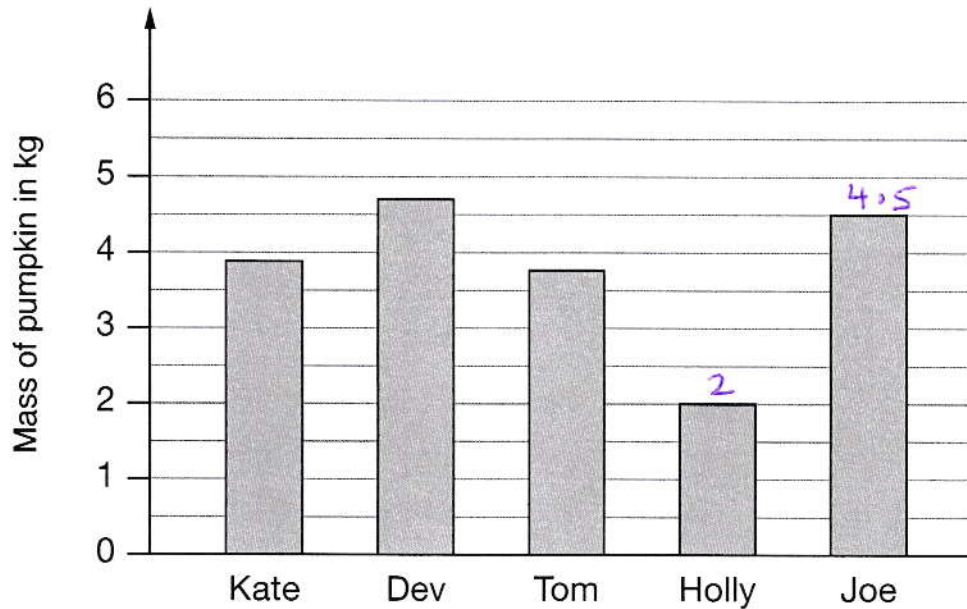
[2 marks]

7

Five children grow pumpkins.



This bar chart shows how heavy their pumpkins are.



How much heavier is Joe's pumpkin than Holly's?

$$4.5 - 2$$



2.5 kg

What is the mass of Dev's pumpkin to the nearest kilogram?

[MORE THAN 4.5, BUT
LESS THAN 5]



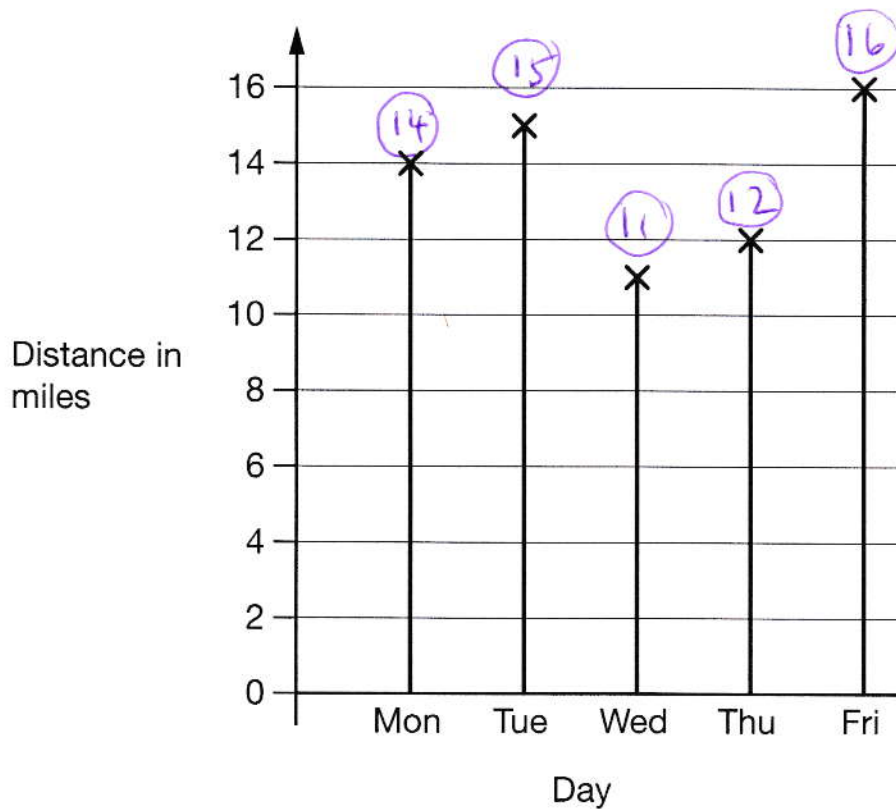
5 kg

[2 marks]

8

Amy went on a cycling holiday.

This chart shows how far she cycled each day.



How much **further** did Amy cycle on Friday than on Wednesday?

$$16 - 11$$



5 miles

How far did Amy cycle **altogether** on the three days she cycled the most?

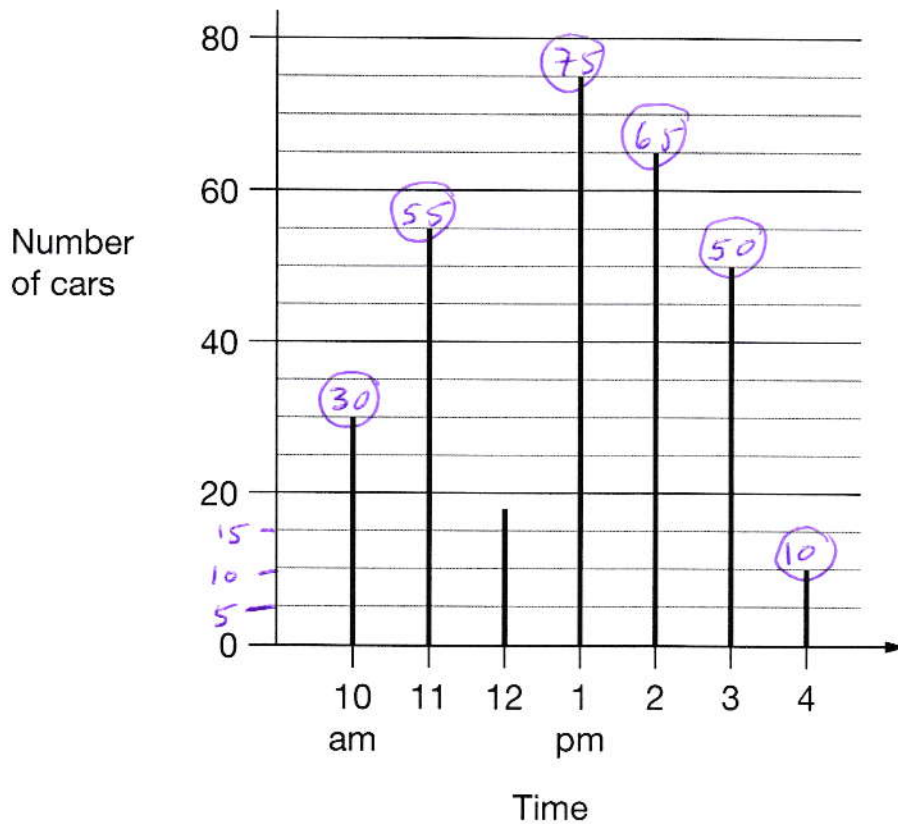
$$16 + 15 + 14$$



45 miles

[2 marks]

This chart shows the number of cars in a car park at different times on one day.



There are 80 cars in the car park when it is full.

How many **empty spaces** were there in the car park at 3pm?

$$80 - 50$$



30

Circle **all** the times when the car park was less than half full.



10
am

11
am

12
noon

1
pm

2
pm

3
pm

4
pm

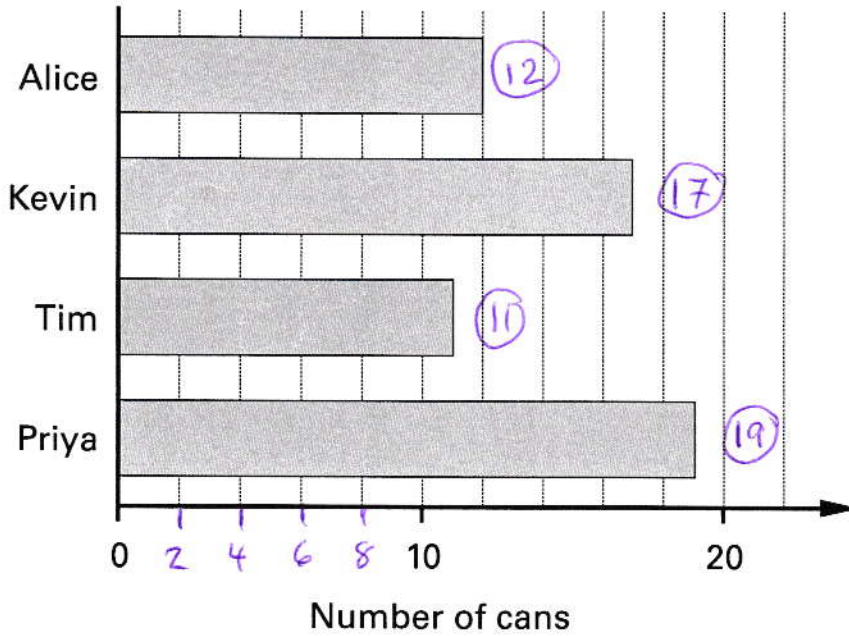
LESS THAN 40 CARS!

[2 marks]

10

Some children collect cans for recycling.

Here is a chart of how many cans they collect in the first week.



How many cans has Kevin collected?



17

Alice's **target** is to collect **30** cans.

How many **more** cans does Alice need to reach her target?

$$30 - 12$$

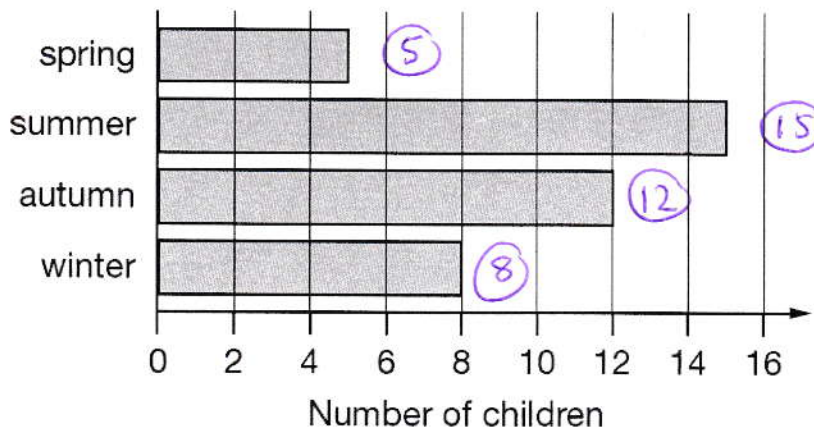


18

[2 marks]


A survey was done to find out children's favourite season.

This chart shows the results.



How many more children chose autumn than chose spring?


$$12 - 5$$



Kirsty says,

'Exactly twice as many children chose summer as chose winter.'

Is Kirsty correct?
Circle **Yes** or **No**.

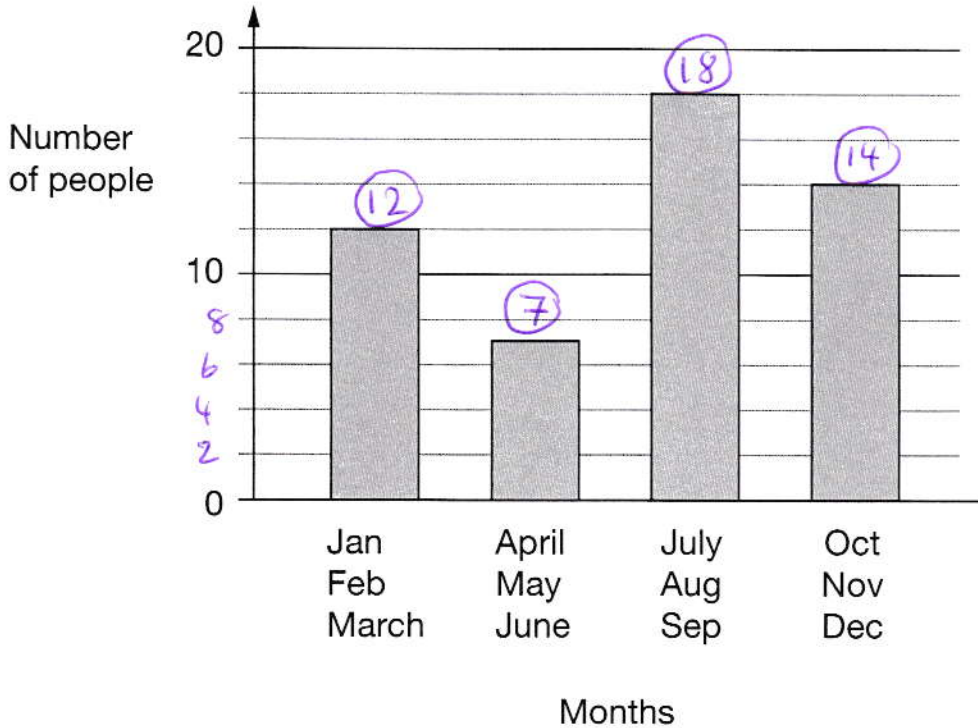
 Yes / No

Explain how you know.

KIRSTY SAID 'EXACTLY' BUT
15 IS NOT EXACTLY TWICE 8
[ONLY APPROXIMATELY TWICE 8]

Class 6 did a survey of birthday dates.

This chart shows the number of people with birthdays in each three months of the year.



From the chart, how many people have a birthday before July?

$$12 + 7$$



19

Nobody has a birthday in October.

Six people have a birthday in November.

How many people have a birthday in December?

$$14 - 6$$

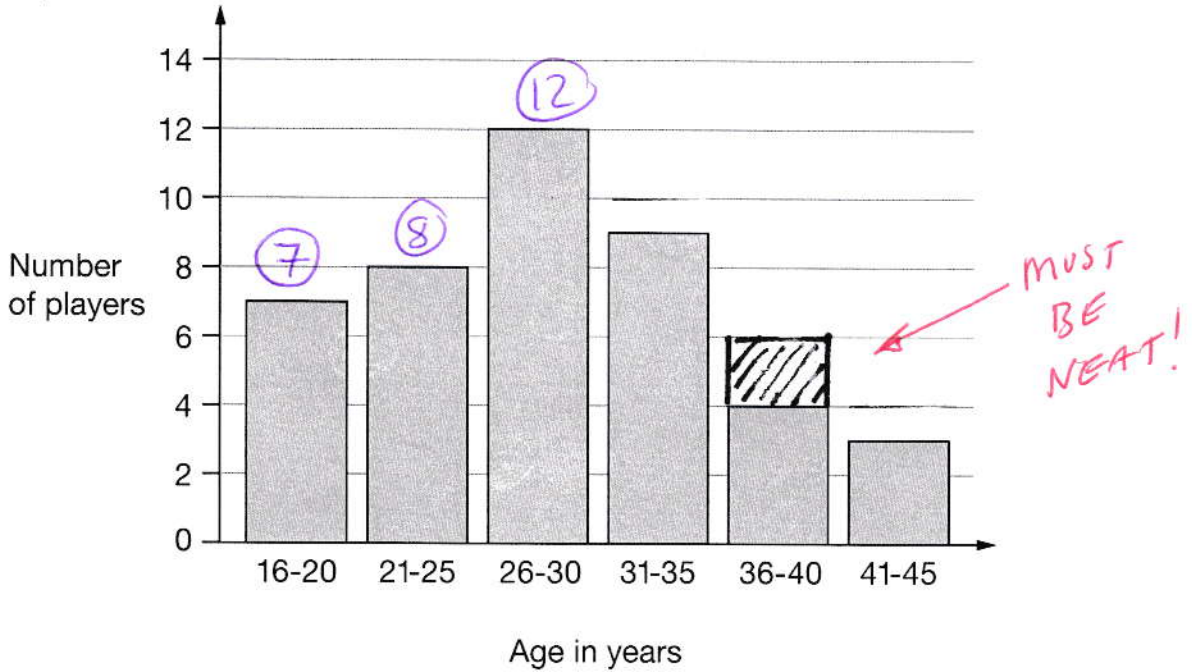


8

[2 marks]

13

This graph shows the age of players at a football club.



How many players are aged 30 or younger?

$$12 + 8 + 7$$



27

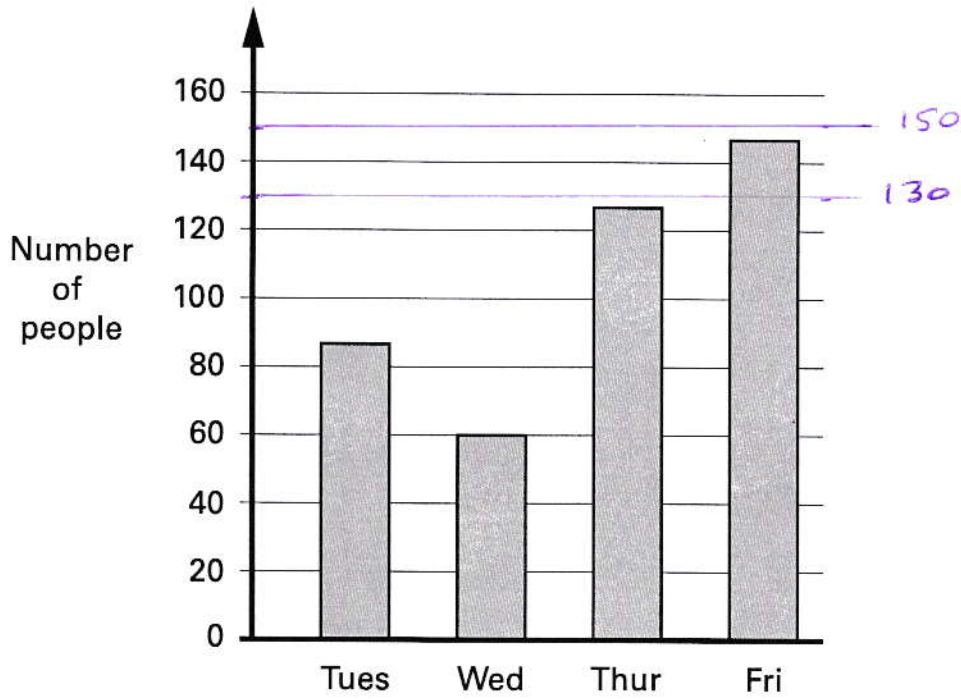
A player aged 36 and a player aged 39 join the club.

Add this information to the graph above.

SEE GRAPH!

[2 marks]

This bar chart shows how many people went to a school play.



Estimate the number of people who went there on **Thursday** and **Friday** altogether.



$$145 + 125 = 270$$

[ACCEPT 170-175]

Each person paid £2.25 for a ticket to get in.

How much **ticket money** was collected on **Wednesday**?

Show your method

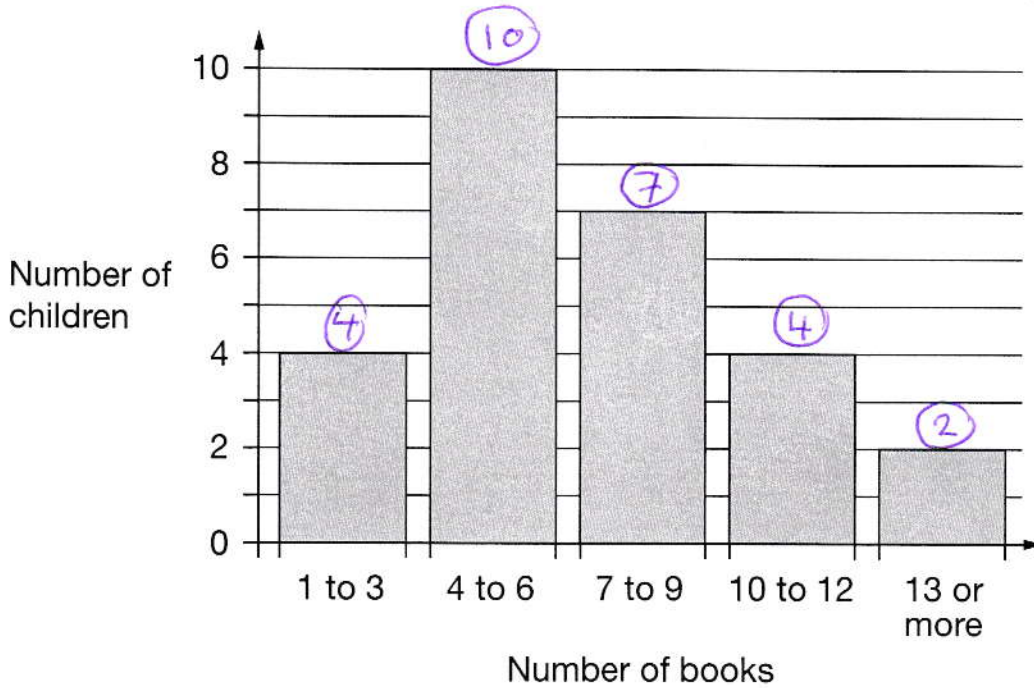
$$2.25 \times 60 = 22.5 \times 6$$

$$\begin{array}{r} 22.5 \\ \times 6 \\ \hline 135.0 \\ 3 \\ 3 \end{array}$$

£135.00

[2 marks]

This chart shows the number of books some children read last month.



How many children altogether read **more than 9 books**?

$$4 + 2$$



| |
|---|
| 6 |
|---|

7 children read 4 books.

1 child read 5 books.

Lin says,

'That means 2 children read 6 books'.

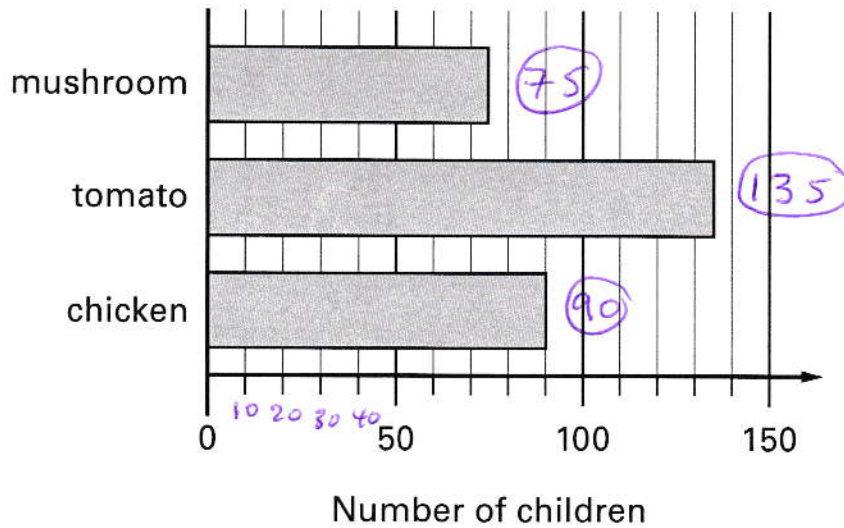
Explain how she can work this out from the chart.

THE SECOND BAR IS FOR 4, 5 OR 6 BOOKS.

IF 7 CHILDREN READ 4 BOOKS AND 1 CHILD READS 5 BOOKS THERE MUST BE $10 - (7 + 1) = 2$ THAT READ SIX BOOKS.

All the children at Park School chose their favourite soup.

The graph shows the results.



Robbie says,

'More than half of the children chose tomato soup.'

Is he correct?
Circle Yes or No.



Yes / No

Explain how you can tell from the graph.

THE TOTAL OF ALL THE BARS
IS $75 + 135 + 90 = 300$

HALF OF 300 IS 150, BUT 135 IS LESS
THAN THIS.

[1 marks]