

1

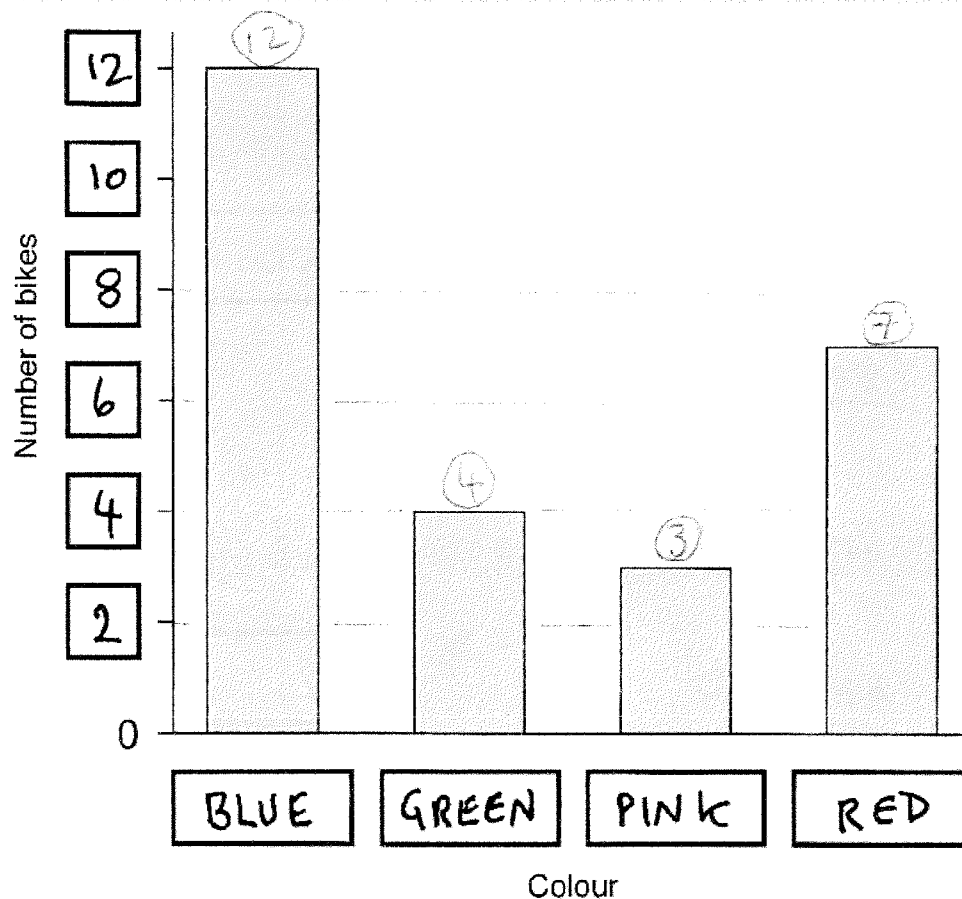
Robbie collected information about the colours of some bikes.

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.

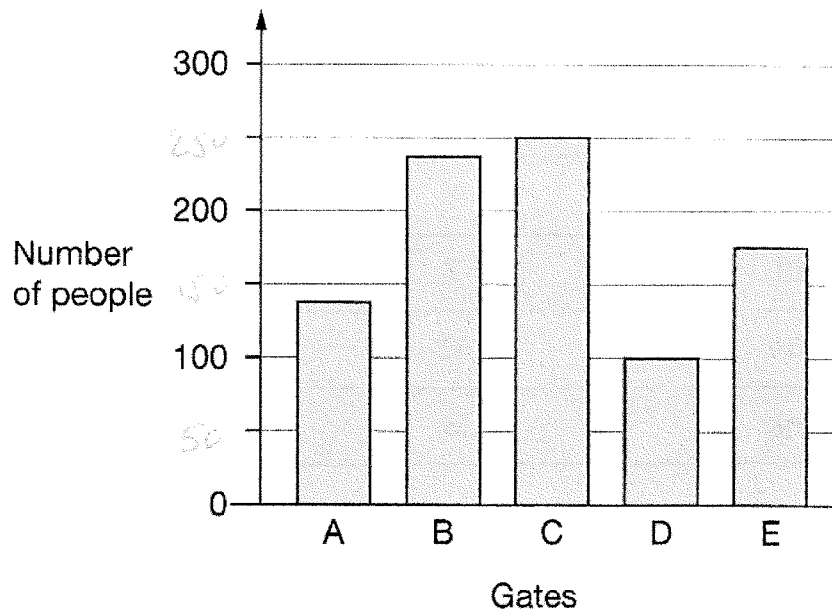


[2 marks]

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?

$$C \rightarrow 250$$

$$D \rightarrow 100$$

$$\underline{\underline{150}} \text{ DIFFERENCE}$$



150

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

'A' AND 'D'



2

[2 marks]

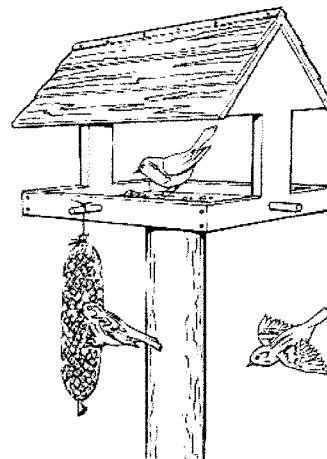
3

Rosie collects data about birds visiting a bird table.

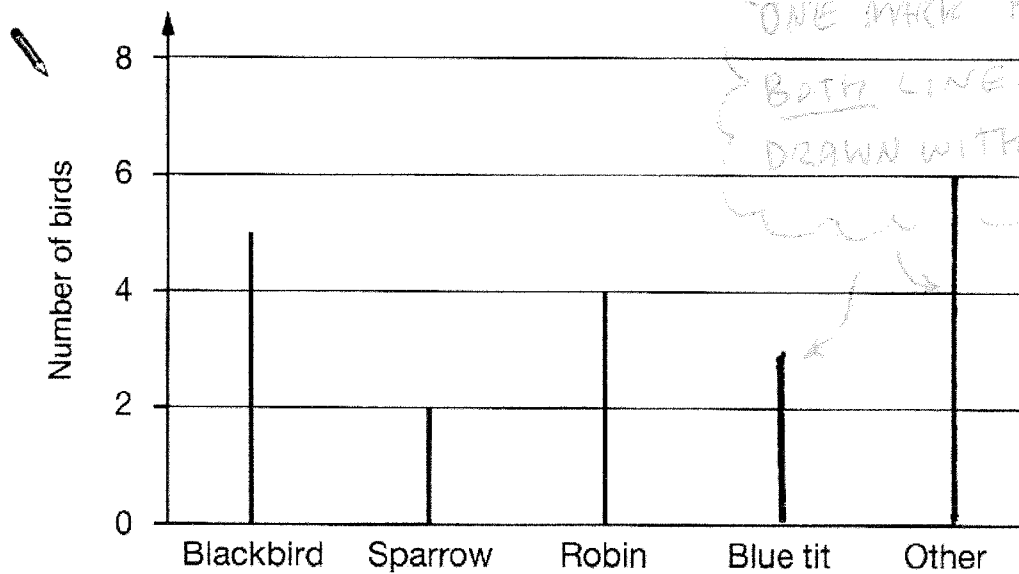
Here are her results.

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?



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



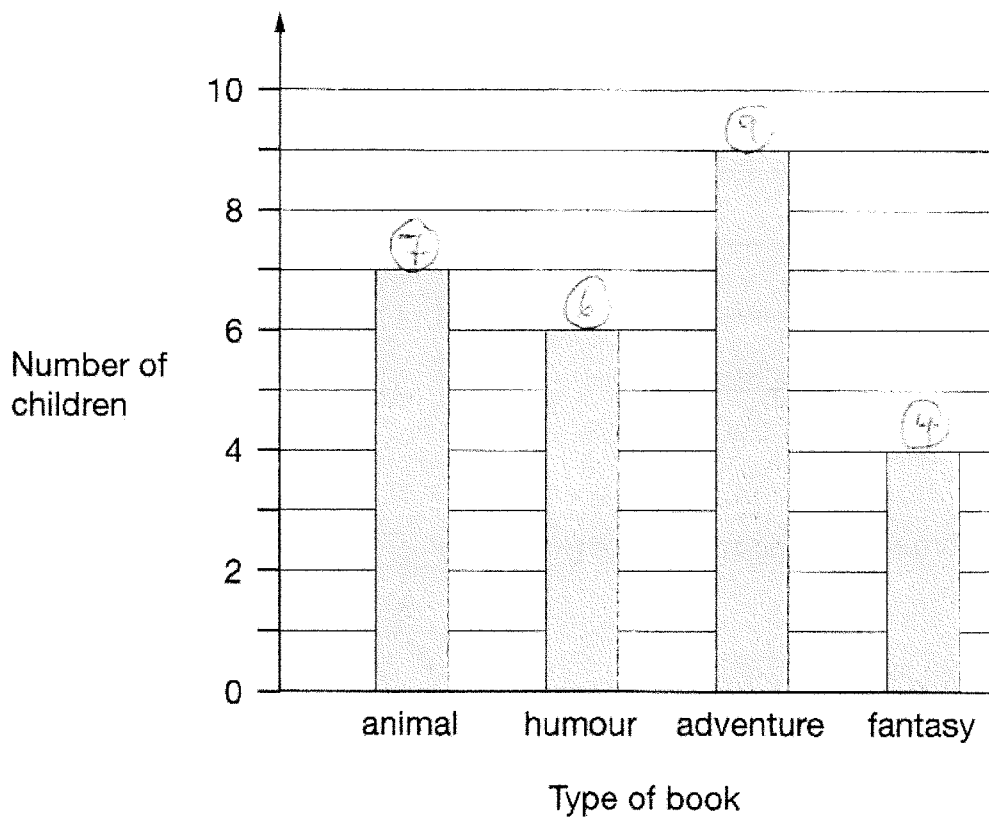
$$\frac{1}{4}$$

[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

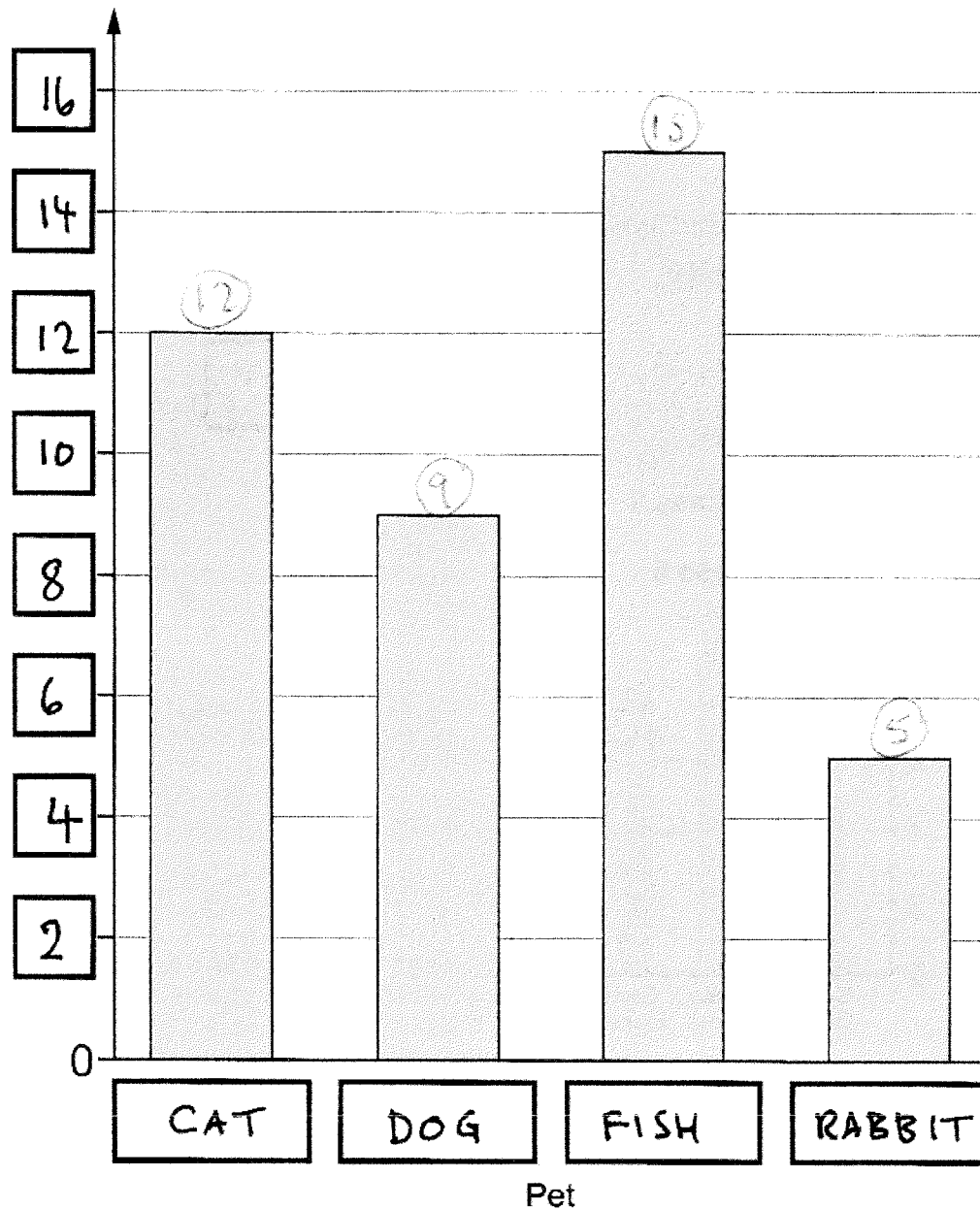
Alfie collected information about the pets owned by children in his class.

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.

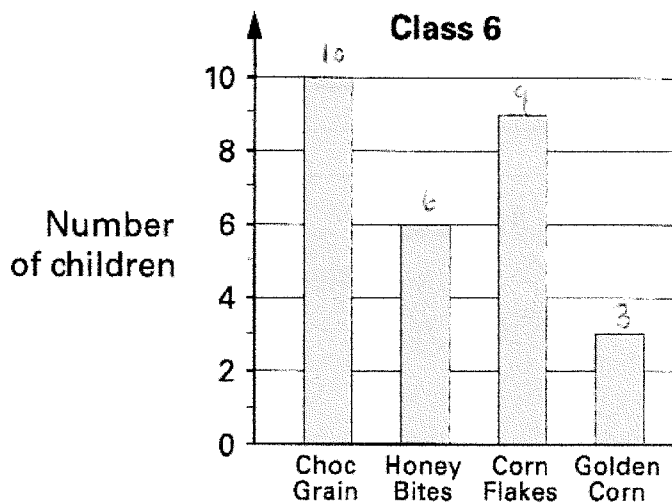


[2 marks]

6

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

These are the results for Class 6



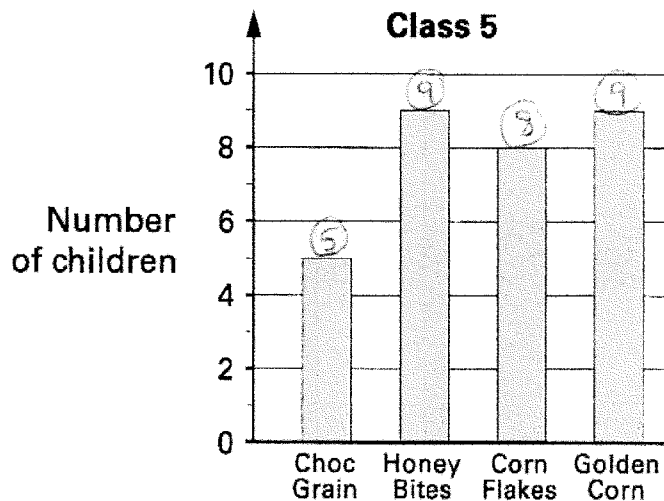
How many **more** children in Class 6 prefer **Choc Grain** than **Golden Corn**?

$$10 - 3$$



7

These are the results for Class 5



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

$$6 + 9$$

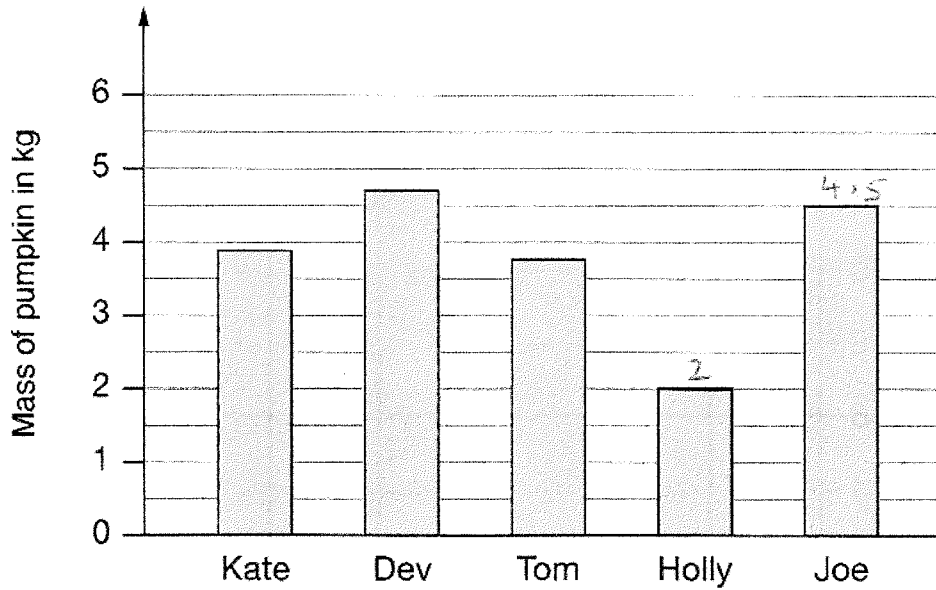
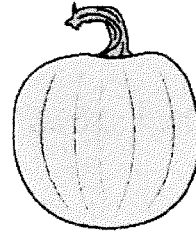


15

[2 marks]

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]



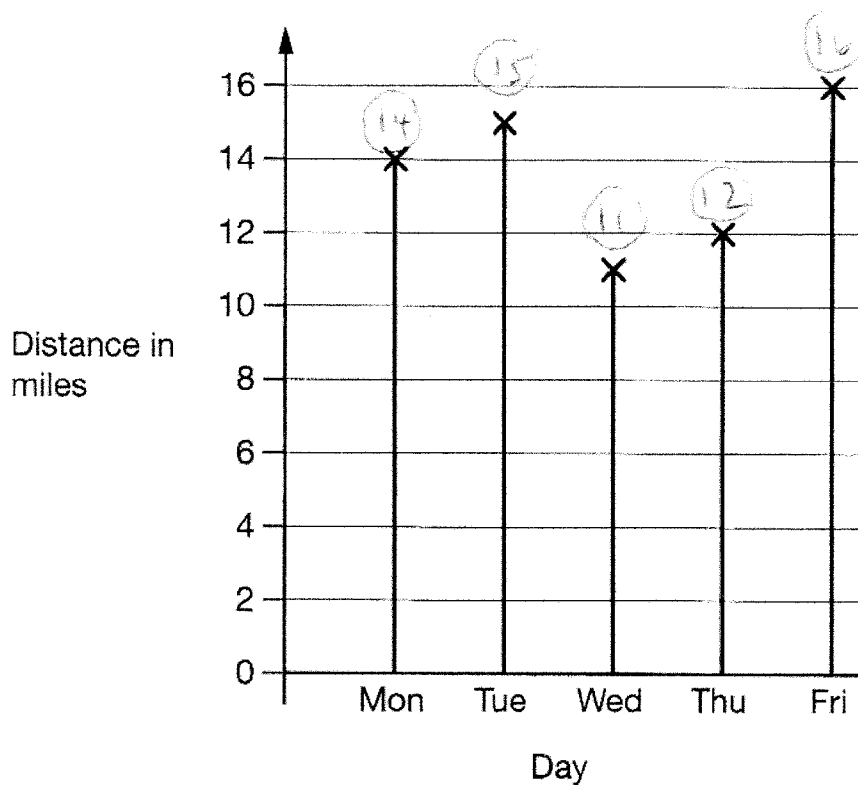
5 kg

[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?

$$16 + 15 + 14$$



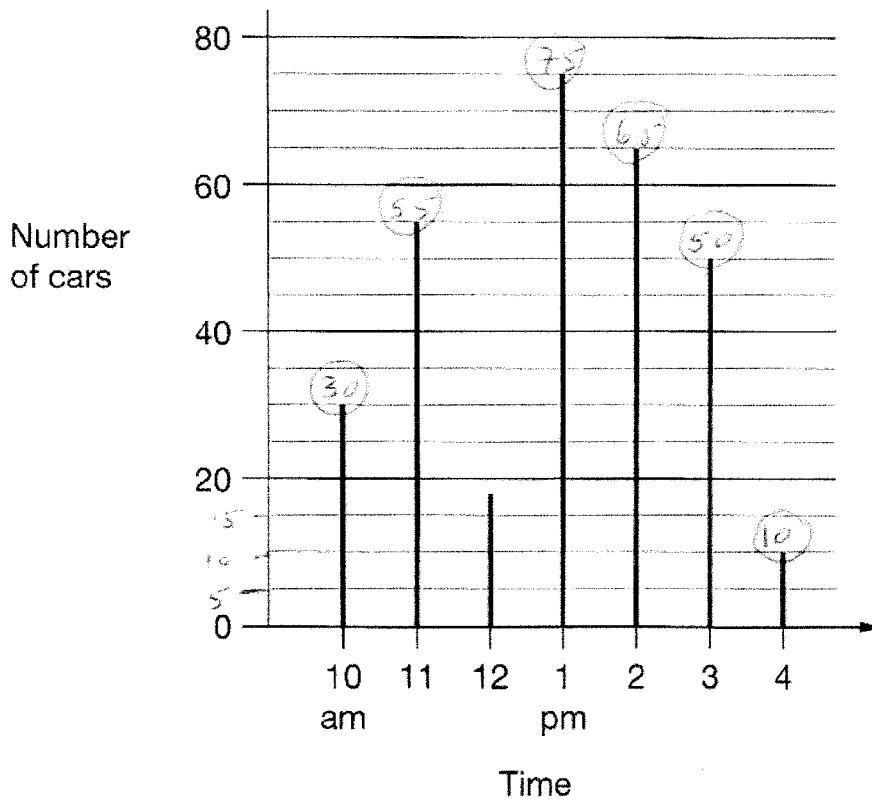
45 miles

[2 marks]



9

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

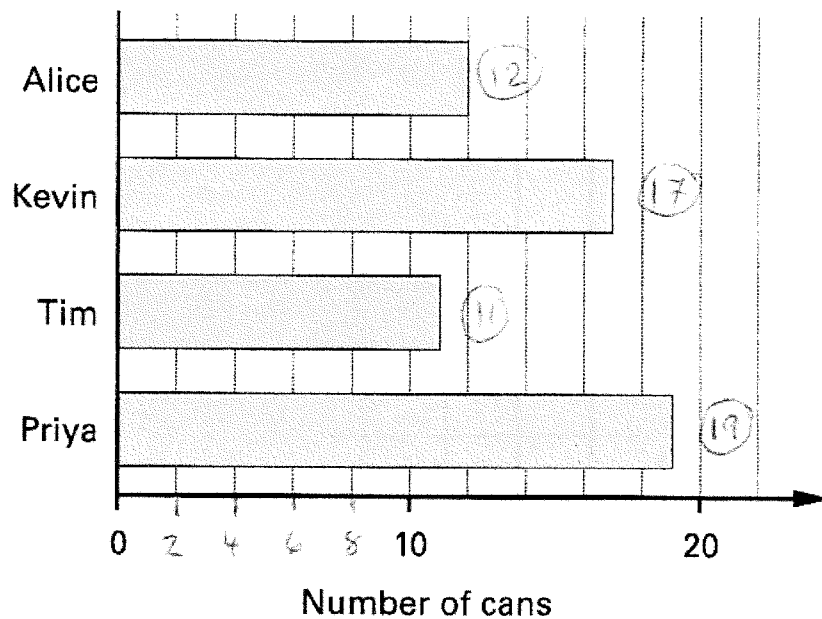
LESS THAN 40 CARS!

[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?

$$30 - 12$$

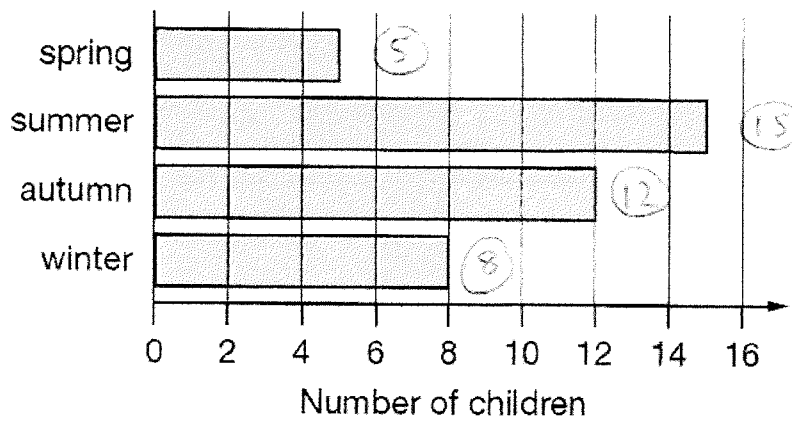


18

[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?

$$12 - 5$$

7

Kirsty says,

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

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

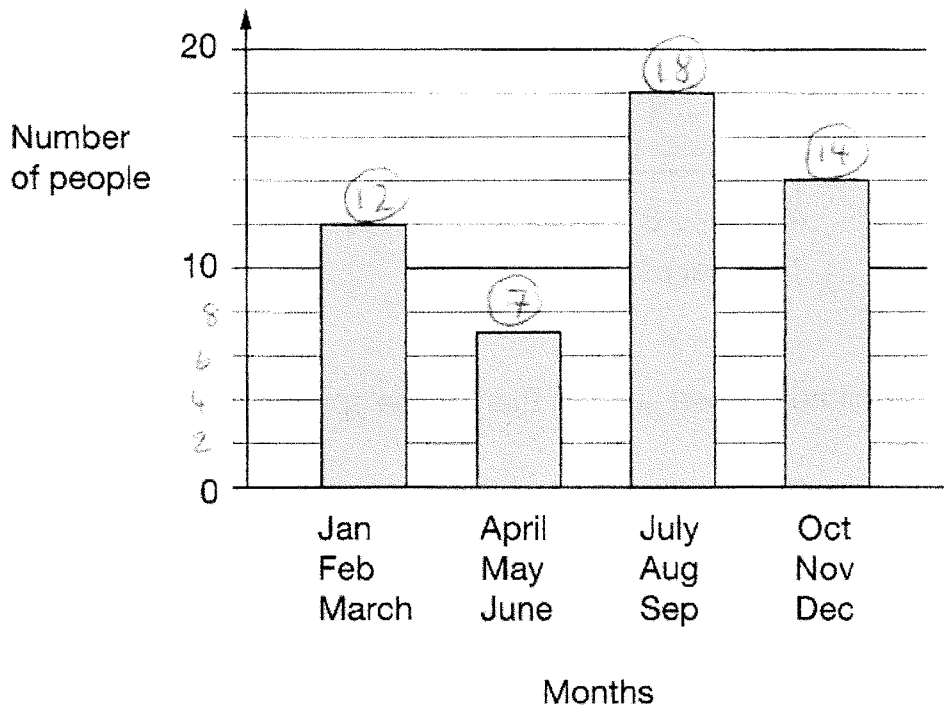
Yes / No

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.

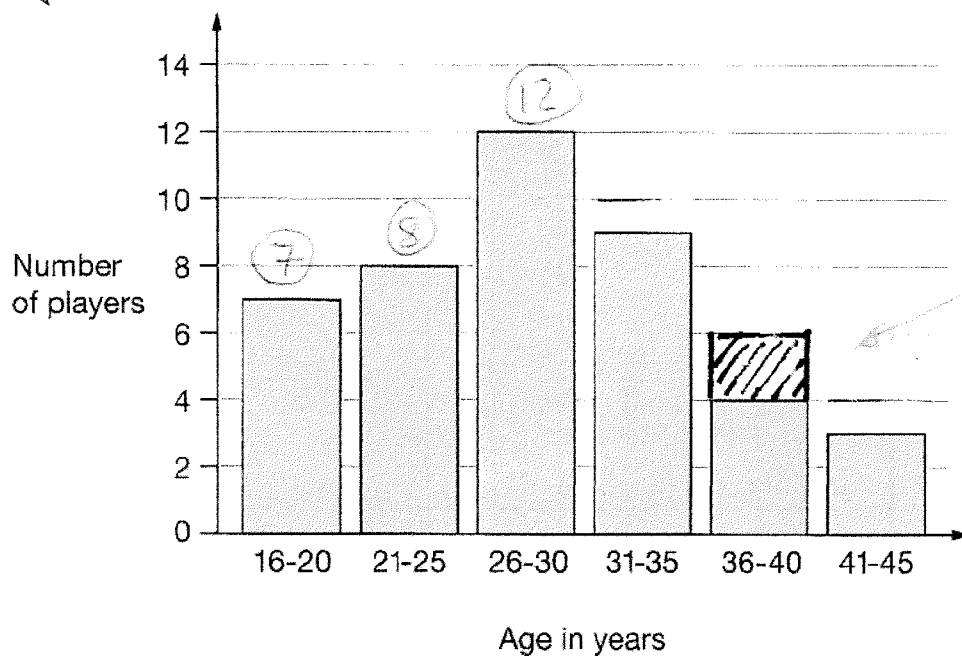
How many people have a birthday in December?

$$14 - 6$$

 8

13

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



WILL  
BE  
NEAT!

How many players are aged 30 or younger?

$$12 + 8 + 7$$



27

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

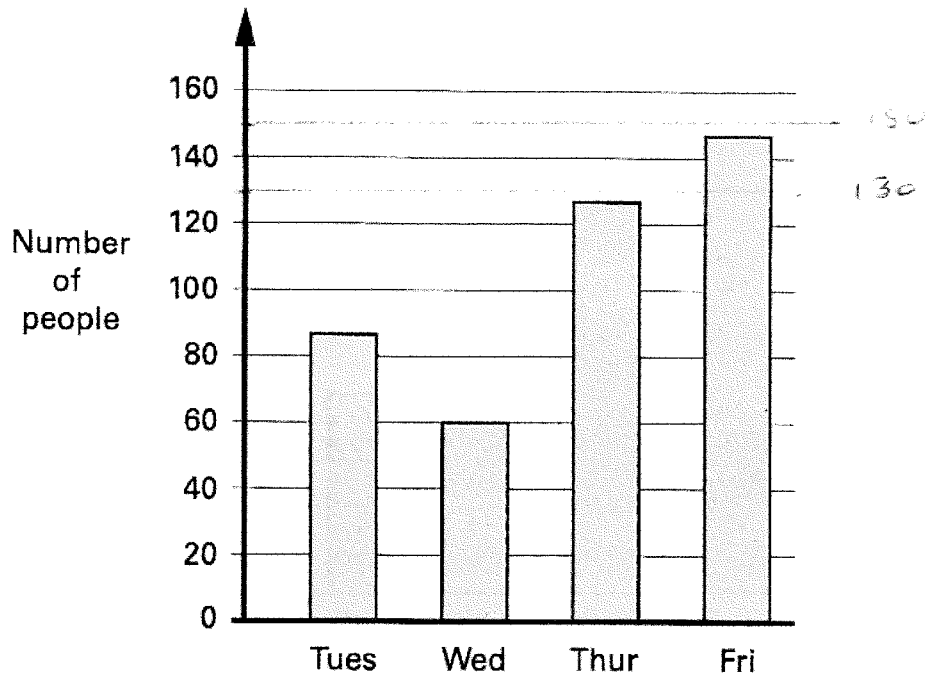
Add this information to the graph above.

SEE GRAPH!

[2 marks]

14

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

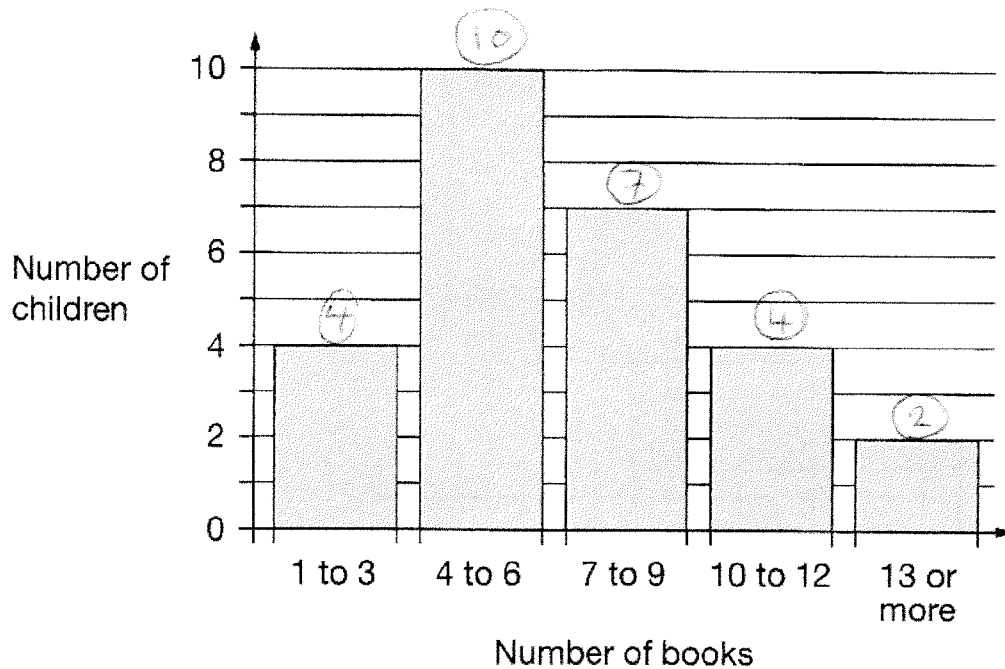
$$2.25 \times 60 = 22.5 \times 6$$

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

£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**?

$$4 + 2$$



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.

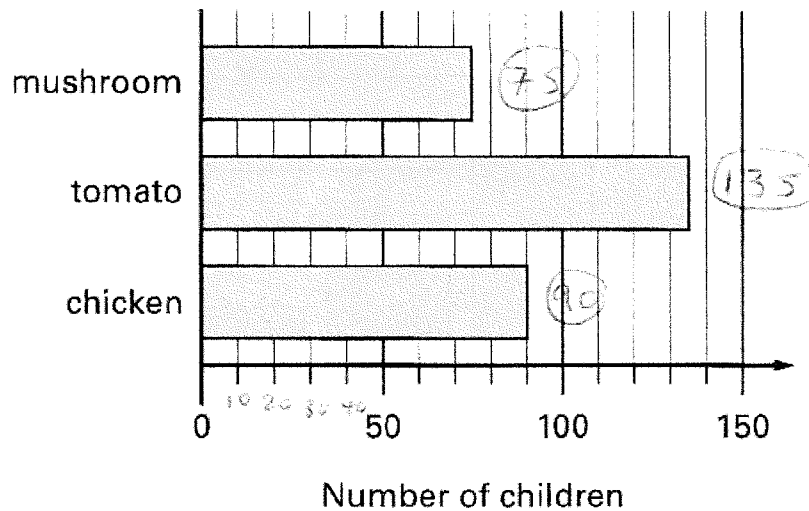
THE SECOND BAR IS FOR 4, 5 OR 6 BOOKS.

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

16

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]