

Information Handling

Exercise 1 Tables

1 Fill in the number section in the woodland table.

Creature	Tally	Number
Wood ant		
Woodlice		
Small fly		
Caterpillar		
Slug		
Snail		

Fill in the tally section in the heathland table

Creature	Tally	Number
Wood ant		2
Woodlice		4
Small fly		7
Caterpillar		8
Slug		5
Snail		4

- Which minibeasts are the most common in woodland?
- Which minibeasts are least common in heathland?

2 Shoppers in the supermarket were asked in a survey which was their favourite fruit. Here is a list of their responses.

Banana	Apple	Banana	Banana	Grape
Orange	Apple	Apple	Strawberry	Orange
Apple	Banana	Orange	Orange	Strawberry
Banana	Banana	Grape	Apple	Apple
Apple	Orange	Strawberry	Strawberry	Apple

Copy this Tally Chart into your jotter and use the list above to complete it.

FRUIT	TALLY	TOTAL
Apple		
Banana		
Grape		
Orange		
Strawberry		

Then use the information in the tally chart to answer the questions below in your jotters.

Which fruit was the most popular?

- Which fruit was the least popular?
- Which two fruits were preferred by the same number of people?
- How many more people preferred Apples to Grapes?
- How many fewer people preferred Strawberries to Bananas?
- How many people were surveyed all together?
- Order the fruits from most popular to least popular?

- 3** A children's shoe shop took a survey of their customers shoe size over one day. Here is a list of their responses.

4 2 2 2 1 3 1 2 2
3 4 1 2 3 2 2 1 1
3 1 3 5 1 2 3 4 2
1

Copy this Tally Chart into your jotter and use the list above to complete it.

Shoe Size	TALLY	TOTAL
Size 1		
Size 2		
Size 3		
Size 4		
Size 5		

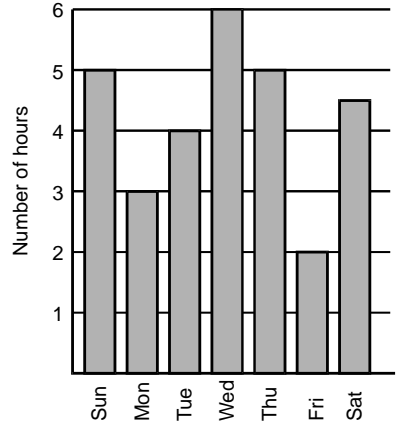
Then use the information in the tally chart to answer the questions below in your jotters.

- a** Which shoe size was most popular?
- b** Which shoe size was the least popular?
- c** What was the largest shoe size?
- d** What was the smallest shoe size?
- e** How many more children had size 2 shoes than had size 4 shoes?
- f** How many fewer children had size 5 shoes than size 1 shoes?
- g** How many customers did the shop have on the day of the survey?
- h** Order the shoe sizes from most popular to least popular?

Exercise 2 Bar Graphs

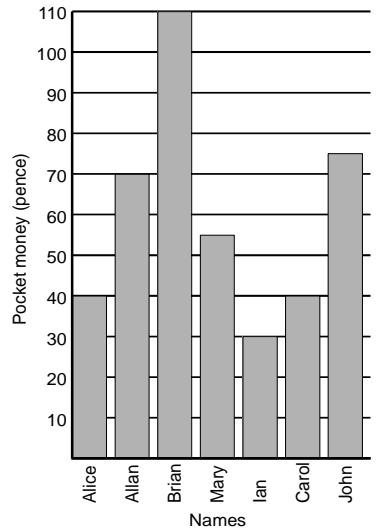
1 This graph shows the number of hours the sun shone on different days in a week.

- a** On which day did the sun shine longest?
- b** On which day did the sun shine for 3 hours?
- c** For how long did the sun shine on Sunday?



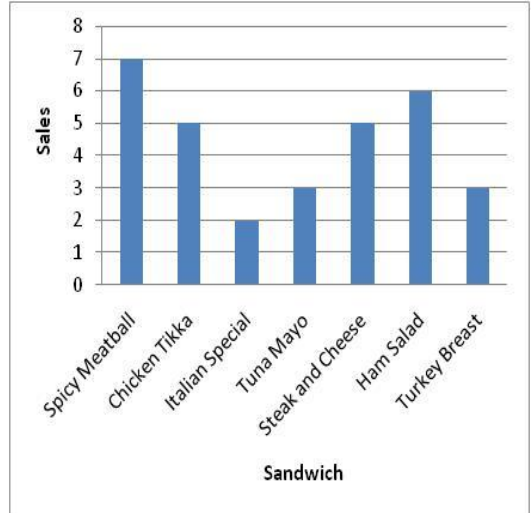
2 This graph shows the amount of pocket money given to various pupils.

- a** How much money was Ian given?
- b** How much money was Mary given?
- c** Which BOY received least money?
- d** How many pupils are shown on the graph?



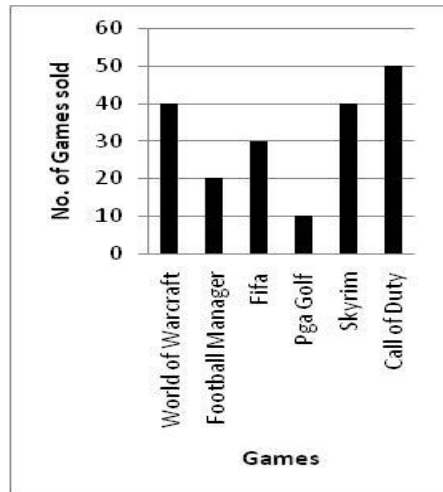
3 This graph shows which sandwiches were sold in Subway during Friday lunchtime.

- a** Which flavour sold 2 sandwiches?
- b** How many steak and cheese sandwiches were sold?
- c** Which sandwich was the most popular?
- d** How many sandwiches in total were sold?



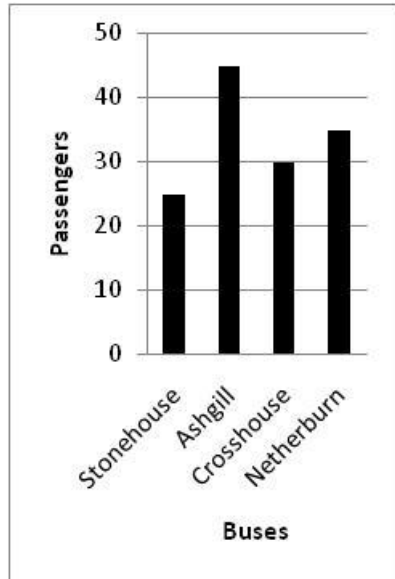
4 This graph shows the different X Box 360 games bought one week in HMV.

- a** How many Fifa games were bought?
- b** Which 2 games sold exactly 40 copies?
- c** Which game sold the least?
- d** What was the total sale of all these games?

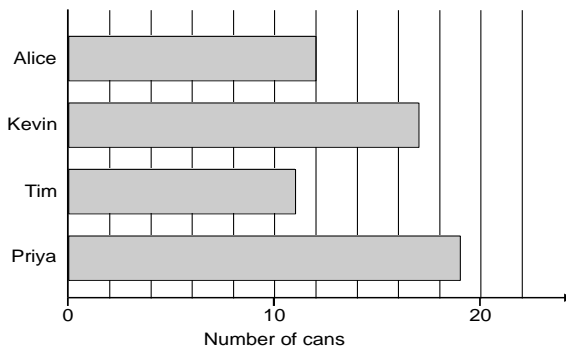


5 In a survey the number of pupils coming to Larkhall Academy by school bus was recorded. The information is shown on the graph below.

- a How many pupils were on the bus from Ashgill?
- b Which bus had the most pupils?
- c How many pupils in total used the buses that day?
- d The buses from Crosshouse and Netherburn were held up in traffic. How many pupils arrived late because of this?

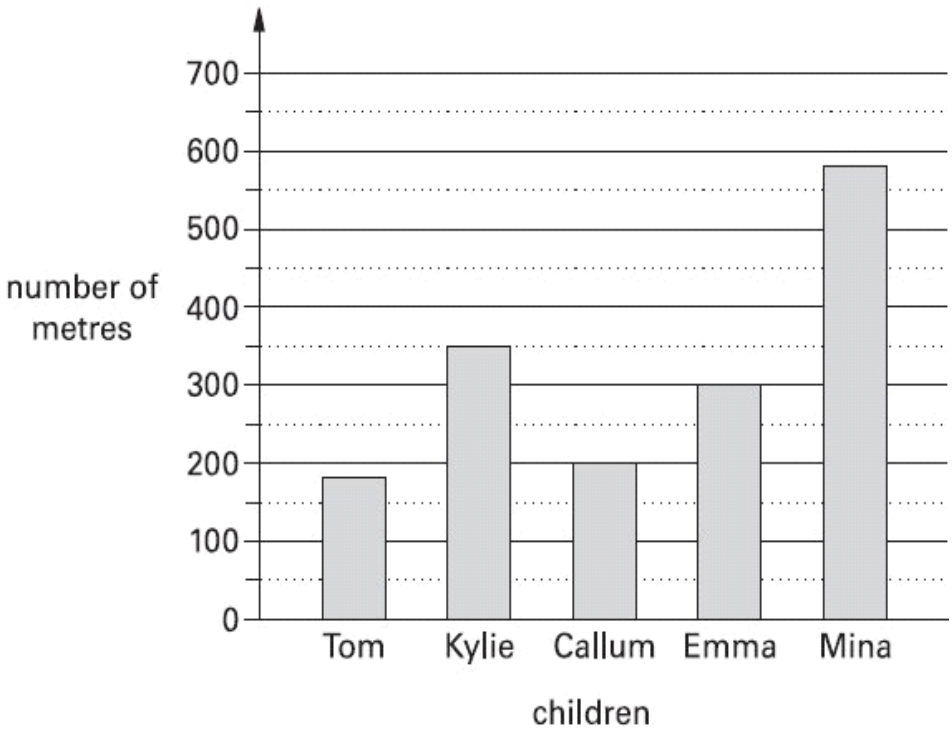


6 Some children collect cans for recycling. Here is a chart of how many cans they collect in the first week.



- a How many cans has Kevin collected?
- b Alice's **target** is to collect **30** cans. How many **more** cans does Alice need to reach her target?

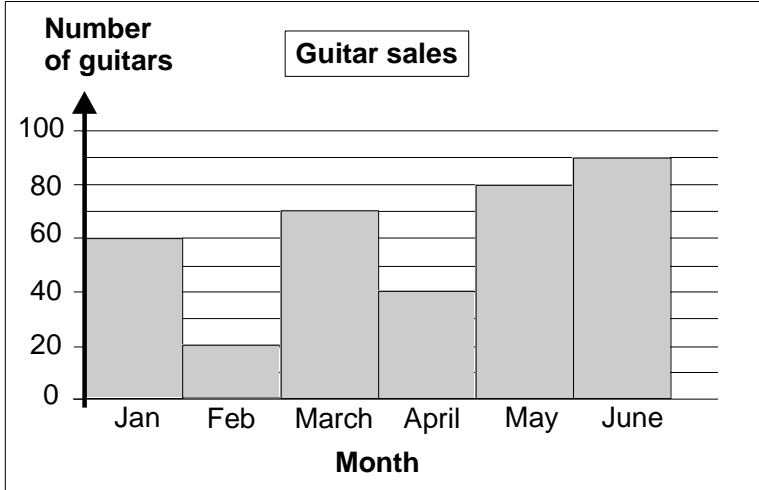
7 This graph shows the distance some children walk to school.



a Who walks **between** 300 and 400 metres to school?

b **Estimate** how many metres Tom walks to school.

8 Here is a graph of guitar sales.



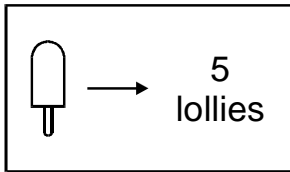
The table below shows the **change in sales** from month to month.


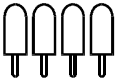


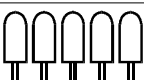

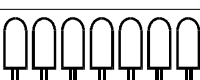
Use the graph to complete the table.

<i>Change in Guitar sales</i>	
January to February	Down 40
February to March	Up 50
March to April	
April to May	Up 40
May to June	

Exercise 3 Pictographs

1



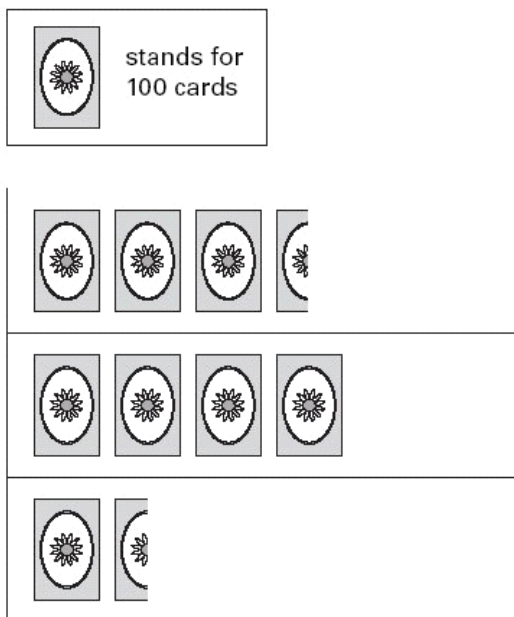
Number of lollies sold	
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

- a How many lollies were sold on Monday?
- b How many more lollies were sold on Tuesday than on Wednesday?

- 2 A shop sells different kinds of greeting cards.



This pictogram shows how many they sold in a week.

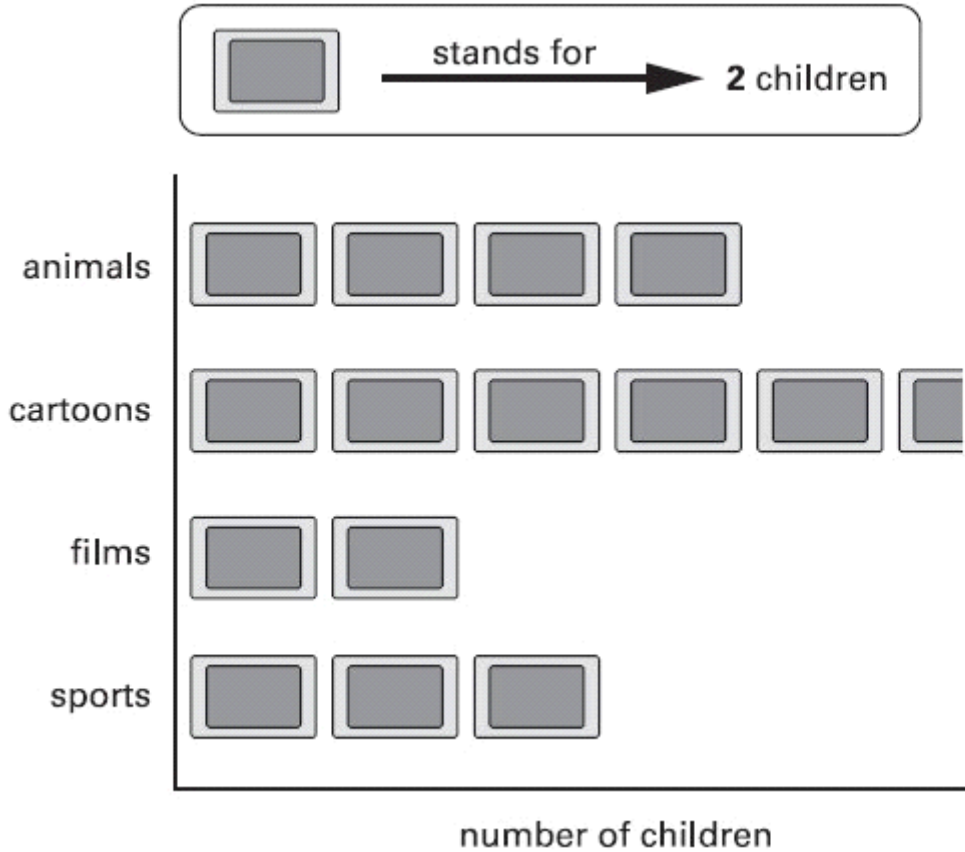


- a Estimate how many Birthday cards were sold.
- b Estimate how many more Thank You cards than Get Well cards were sold.

3 Kiz asked each child in his class,

'What kind of television programme do you prefer to watch?'

Here are his results.





a How many **more** children prefer to watch cartoons than films?





b How many children were in the class?

4 Class survey of favourite fruit drinks

flavour	number of children
pineapple	2
orange	10
blackcurrant	8
grapefruit	6
apple	9

a Complete the pictogram for the class.

	2 children
	1 child

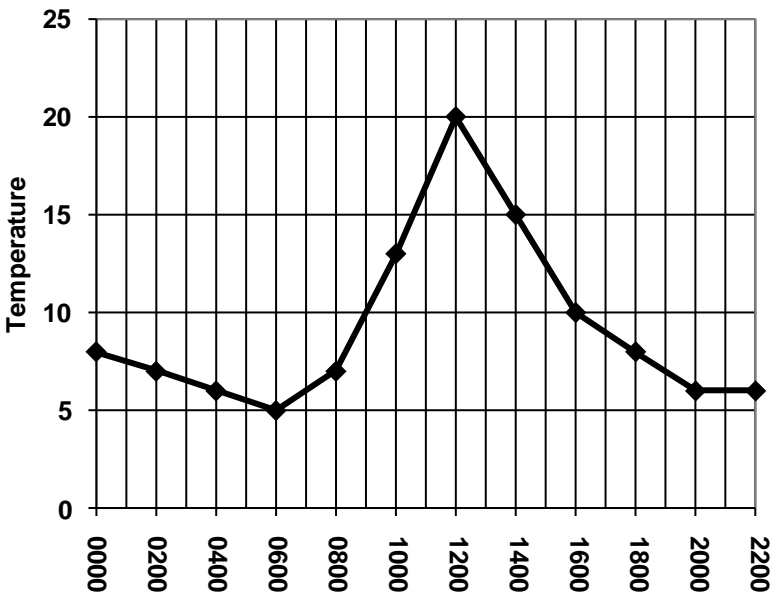
flavour	number of children
blackcurrant	
apple	
	
orange	
pineapple	

b How many children altogether chose the three most popular flavours?

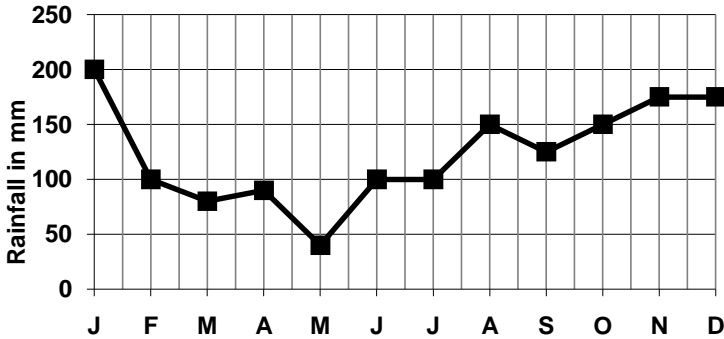
Exercise 4 Line Graphs

1 The graph shows the temperature measured over a 24 hour period.

- What was the highest temperature recorded?
- What was the lowest temperature recorded?
- What was the temperature at 12 noon?
- How much did the temperature drop between 1pm and 8pm?

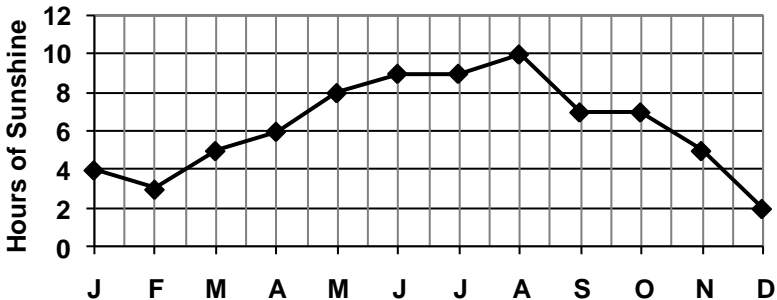


2 The graph shows the average monthly rainfall in



- Which month was the driest month of the year?
- Which month was the wettest month of the year?
- What was the rainfall in July?
- What was the total rainfall from January to March?

3 The graph shows the hours of sunshine during the summer in Glasgow.



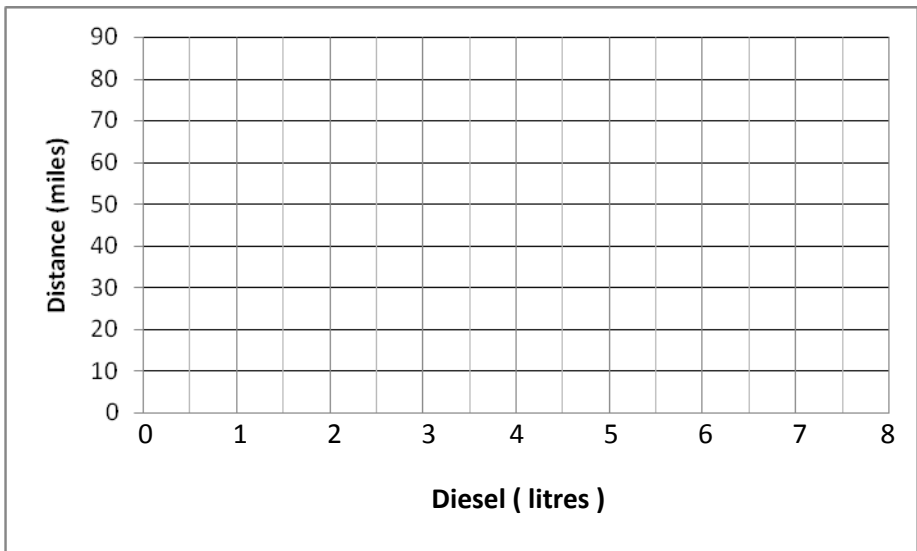
- Which month was the sunniest?
- In which month was there 8 hours of sunshine?
- Between which two months was the biggest increase?

4 A lorry travels **10 miles** on every **1 litre of diesel**.

a Complete the table below:

Diesel (litre)	1	2	3	4	5	6	7	8
Distance (miles)								

b Copy the set of axes below, plot the points from the table and draw a straight line through them with your ruler.

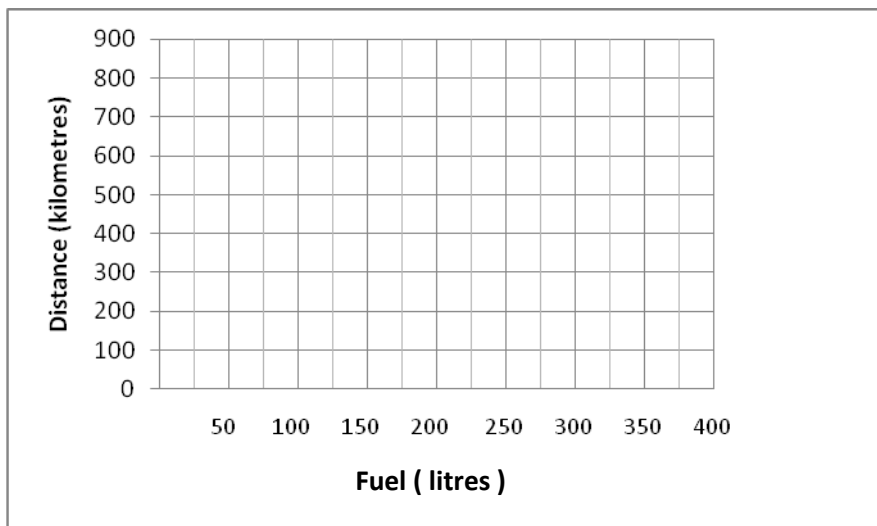


5 An aeroplane travels an average distance of **2 kilometres** on **1 litre of fuel**.

a Complete the table below

Fuel (litres)	50	100	150	200	250	300	350	400
Distance (kilometres)	100		300					

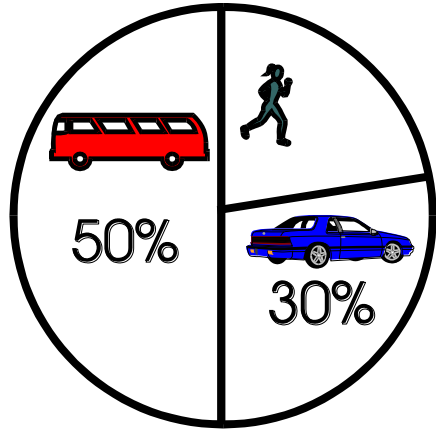
b Copy the set of axes below, plot the points from the table and draw a straight line through them with your ruler.



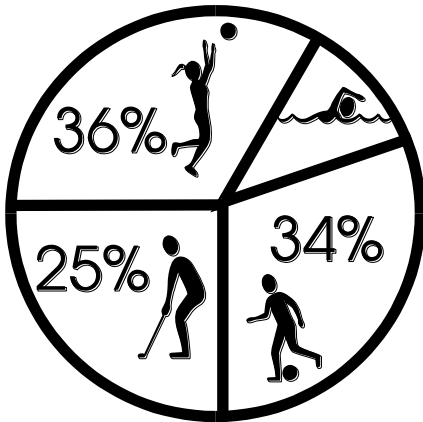
Exercise 4 Pie Charts

- 1 This pie chart shows how a group of pupils come to school.
What percentage of pupils come by

- a Bus
- b Car
- c Walking?
- d What are the benefits of walking to school?

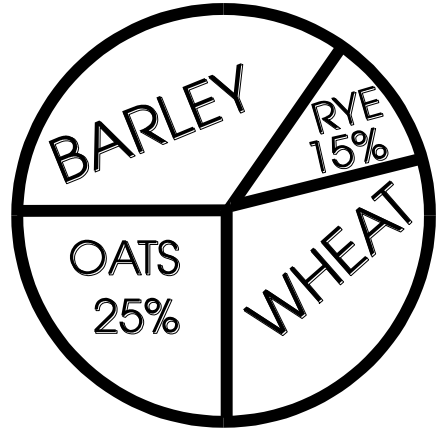


- 2 This pie chart shows the favourite sport of some pupils.

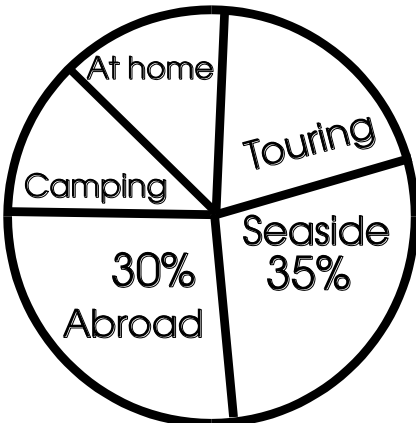


What percentage of pupils have **swimming** as their favourite sport?

- 3 This pie chart shows the different ingredients of a breakfast cereal. There is the **same amount** of barley and wheat in the cereal. What percentage of the cereal is barley?



- 4 The pie chart shows the holiday arrangements for a group of people.



a) What percentage went touring if **touring** had **10% fewer** people **than seaside**?

b) If **camping** and **at home** have the same percentage then what is the percentage that stayed **at home**?