

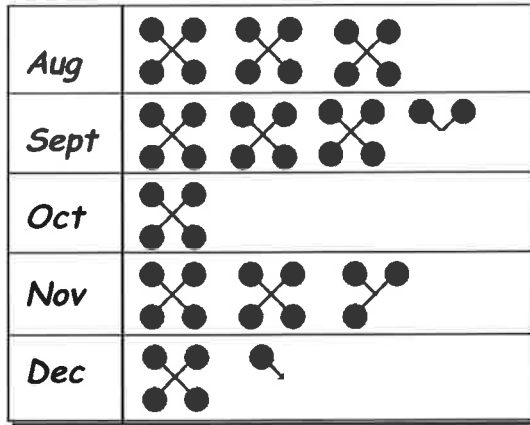
CHAPTER 18



Exercise 1



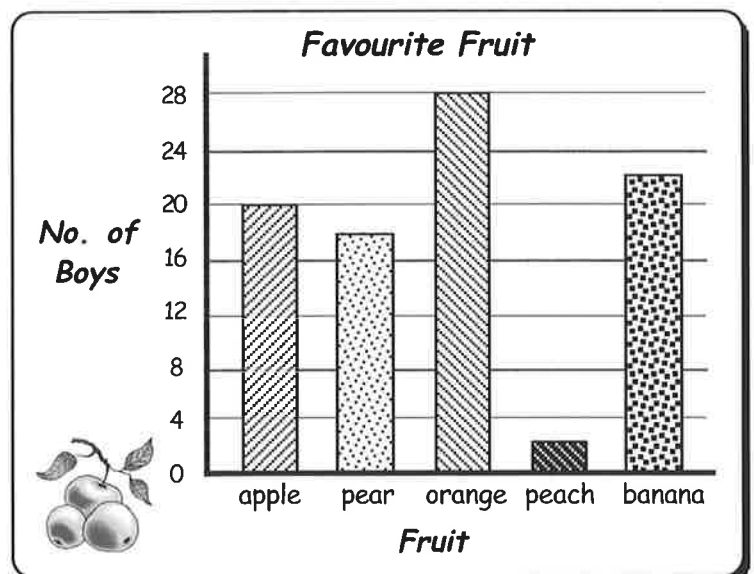
1. This pictograph shows the number of goals scored by a football team in the first five months of the season.



Key: stands for 4 goals.

- Write down how many goals were scored **each** month.
 - What was the team's **worst** month?
 - How many goals did the team score altogether from **August** to **December**?
2. A few boys were asked to name their **favourite** fruit.
The results are shown in the bar graph below.

- How many boys chose :-
 - orange
 - apple
 - banana?
- How many **fewer** boys preferred peach to pear?
- How many **more** boys preferred banana to peach?
- How many boys took part in this survey?



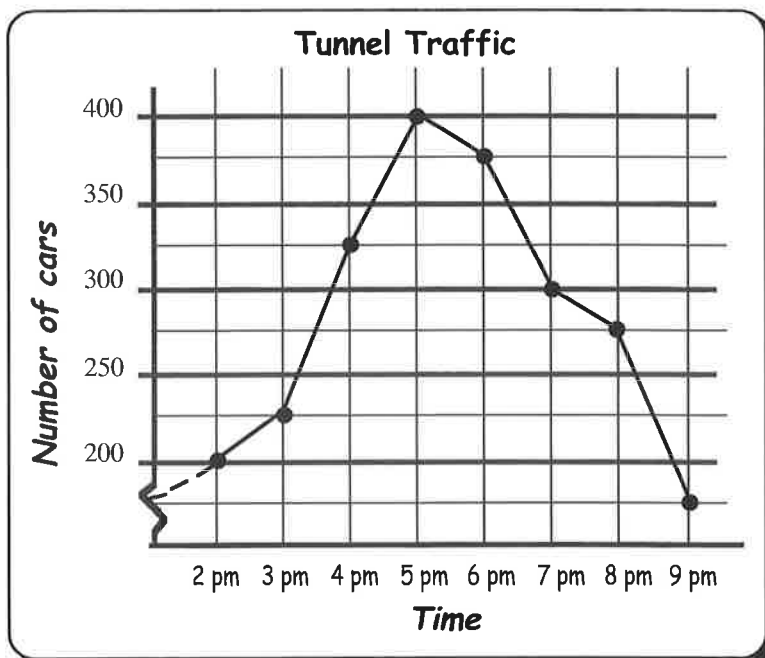
3. The line graph shows the number of cars per hour that were passing through the Clyde Tunnel one Monday afternoon.

a How many cars were passing through the tunnel at :-

- (i) 2 pm (ii) 4 pm
- (iii) 6 pm (iv) 8 pm
- (v) 7.30 pm ?

b At what time were there 225 cars per hour going through the tunnel ?

c At what times (approx.) were there 275 cars per hour going through the tunnel ?



d Between which two times was the biggest increase in traffic ?

e Between which two times was the biggest decrease in traffic ?

f Why do you think the traffic was busiest around 4.30 pm - 6 pm ?



4. A restaurant owner decides to introduce a "theme night" idea into his menus.

The cost for each theme meal is shown.

a How much will it cost for :-

(i) one adult on a Monday Chinese Theme night ?

(ii) one adult on a Sunday Indian Theme night ?

(iii) three adults on a Saturday European Theme night ?

(iv) one adult and one child on a Sunday Chinese Theme night ?

	Mon - Fri		Sat & Sun	
	Adult	Child	Adult	Child
Chinese	£20	£6	£23	£10
Indian	£21	£5	£25	£15
European	£25	£10	£28	£20

b Mr and Mrs Watson take their four children to an Indian Theme night on a Wednesday.

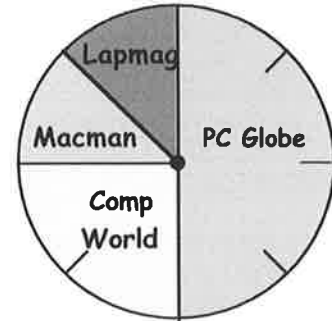
(i) Work out the total cost for the family.

(ii) How much did they save by not going there on a Saturday or Sunday ?



Exercise 2

1. A survey of computer magazine sales in a newsagents was made and the results are shown on the pie chart.



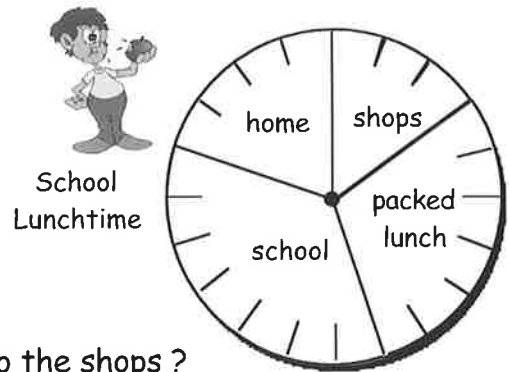
Magazine Sales



- How many equal parts has the pie chart been split into?
- What fraction does each part stand for?
- What fraction represents Macman?
- Of the 400 people who took part in the survey, how many chose :-
 - PC Globe
 - Comp World
 - Lapmag?

2. 200 first year pupils were asked what they did for food at lunchtime.

The results are shown in this pie chart.



School Lunchtime

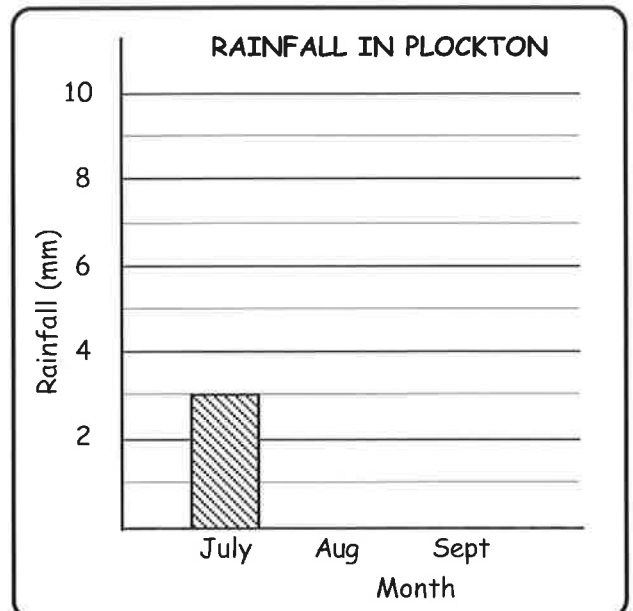
- How many pupils went home for lunch?
- How many pupils took a packed lunch?
- How many pupils stayed in school?
- How many **more** went home rather than go to the shops?

Exercise 3

1. The table shows the rainfall (in mm) from July to December in Plockton.

July	Aug	Sept	Oct	Nov	Dec
3	2	5	10	7.5	9

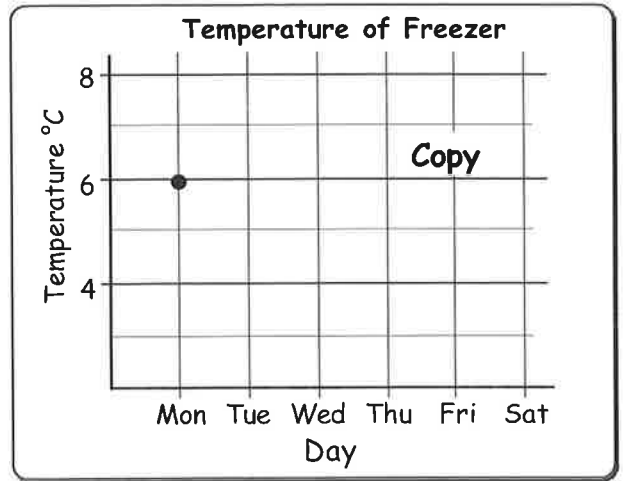
Copy and complete the bar graph using this information.



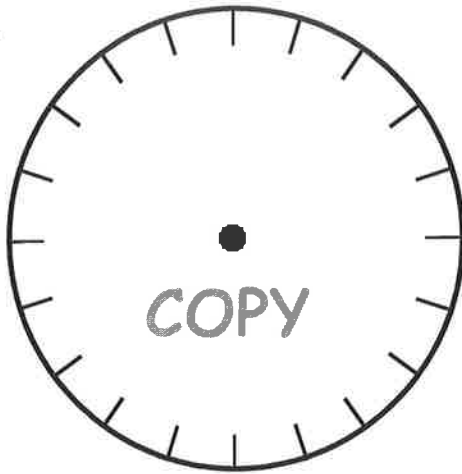
2. The temperature of a freezer, in °C, is recorded and shown in the table below.

Mon	Tue	Wed	Thu	Fri	Sat
6	7	4.5	8	10	8.5

Copy and complete the line graph to show this information.



- 3.



In a survey carried out in a baker's shop about "what do you like on a scone", it was found that :-

15% of those asked preferred "Cream".

45% of those asked preferred "Butter".

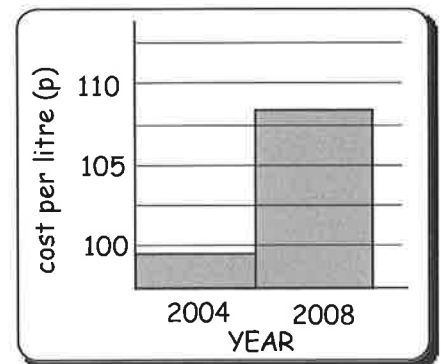
30% of those asked preferred "Jam".

10% of those asked preferred "Nothing".



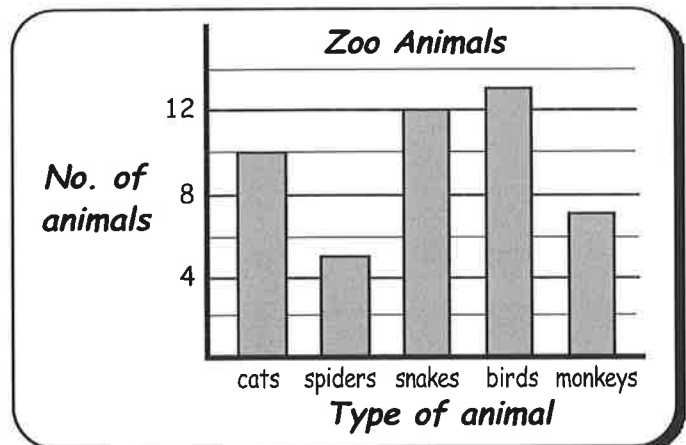
Copy or trace the blank pie chart and show the results of the survey.

4. This graph shows the average price of a litre of petrol in 2004 (99p) and 2008 (108p).
- Explain why the graph is misleading.
 - Draw a bar graph that gives a better picture of the comparison of prices in 2004 and 2008.



Revision Exercise

1. The bar graph shows the number of different animals at a local zoo.
- How many of each type of animal were in the zoo?
 - How many **more** birds than spiders were there?
 - How many animals were in the zoo altogether?



2. People were asked to name their favourite drink.

Orange	Water	Lemonade	Cola	Irn Bru
Water	Lemonade	Irn Bru	Orange	Orange
Orange	Water	Water	Water	Orange
Water	Irn Bru	Orange	Water	Cola
Water	Orange	Water	Irn Bru	Cola
Orange	Water	Cola	Water	Irn Bru



- With the use of tally marks, draw a **frequency table** to show this information.
- Now draw and label a neat **bar graph** to help represent this information.

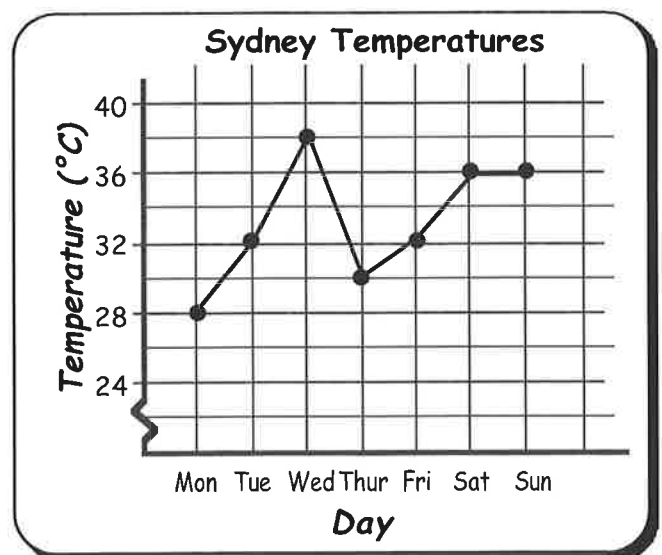
3. This Pie Chart, with 10 sectors, shows people's favourite type of film.

- What fraction prefer Romance ?
- What fraction represents :-
 - Comedy
 - Horror
 - Adventure ?
- If 300 people were asked in the survey, how many of them prefer :-
 - Romance
 - Comedy
 - Horror
 - Adventure ?



4. The line graph shows the temperature (in °C) in Sydney one week in February.

- Write down the temperature for each day.
- Which day was the warmest ?
- Which day was the coldest ?
- Between which two days was the greatest rise in temperature ?
- By how many degrees was the only fall in temperature ?
- On which days was the temperature :-
 - more than 34 °C
 - less than 32 °C ?



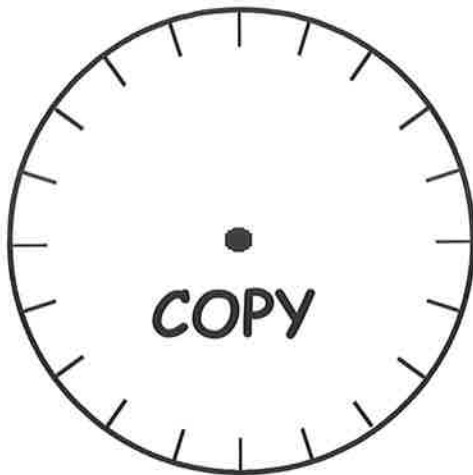
5. The table shows the number of vacuum cleaners sold by two electrical stores in Greenock over several months.

Month	July	Aug	Sept	Oct	Nov	Dec
Homeway	10	14	12	20	13	14
Inhouse	7	5	15	25	20	15



Show the information for Homeway and Inhouse on the same line graph.

6.



In a survey carried out in a corner shop about favourite types of soup, it was found that :-

- 30% of those asked preferred chicken
- 45% of those asked preferred pea/ham
- 10% of those asked preferred lentil
- the rest preferred tomato.

Copy or trace the blank pie chart and show the results of the survey.

7. Daily hotel prices in Paris are shown in the table.

a How much would it cost for :-

- one single room in Hotel Rouge on 23rd June ?
- one double room in Hotel Zidane on 12th August ?
- Two double rooms on 16th May at the Hotel Metro ?

	May-June		July-Aug	
	Double	Single	Double	Single
Hotel Rouge	£95	£70	£100	£80
Hotel Metro	£80	£60	£90	£70
Hotel Zidane	£110	£90	£120	£95

b John paid £240 for a three night stay in a single room.

In which hotel did he stay and in what period ?

c Last June, six people booked 2 double and 2 single rooms in the Hotel Zidane for two nights.

- How much was the total cost of their stay ?
- How much would they have saved if they had stayed at the Hotel Metro ?

