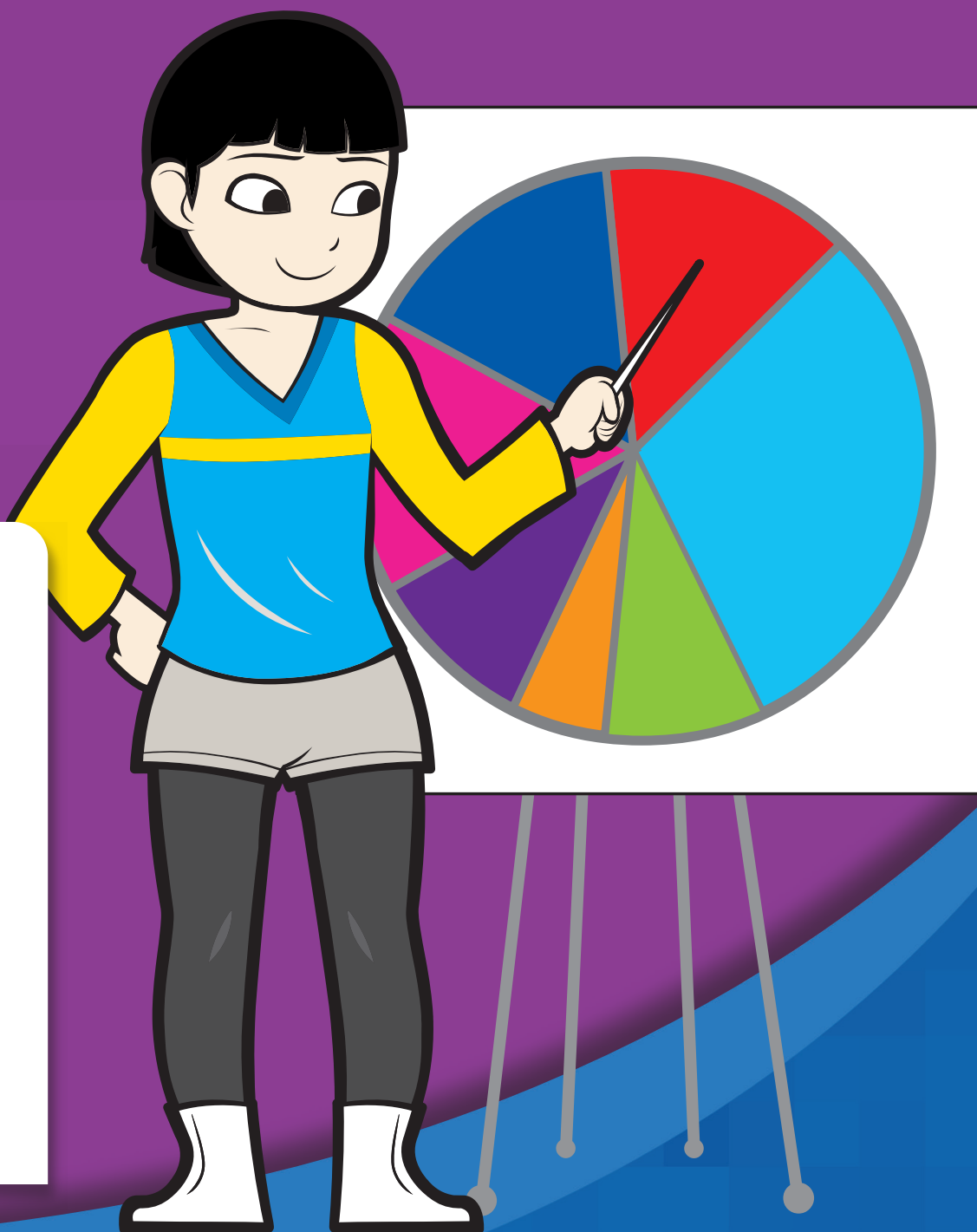


Data Representation



Name _____

Series F – Data Representation

Contents

Topic 1 – Types of graphs 1 (pp. 1–6)

Date completed

- picture graphs _____ / /
- column graphs _____ / /

Topic 2 – Types of graphs 2 (pp. 7–11)

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Topic 3 – Types of graphs 3 (pp. 12–17)

- reading line graphs _____ / /
- constructing line graphs _____ / /
- travel graphs _____ / /

Topic 4 – Collecting and analysing data (pp. 18–23)

- frequency tables _____ / /
- mean _____ / /
- collecting data _____ / /

Topic 5 – Data investigations (pp. 24–28)

- whodunnit? – *solve* _____ / /
- data disaster – *create* _____ / /
- hello, holidays! – *solve* _____ / /

Series Authors:

Rachel Flenley
Nicola Herringer

Types of graphs 1 – picture graphs

Picture graphs are used to display large amounts of data. A symbol is chosen to represent a specific amount. Picture graphs have a title that tells us what data has been collected, category labels and a key to show the value of the symbol.

How many chocolate cupcakes were sold?

$$4 + 4 + 4 + 4 + 2 = 18$$

Cupcakes Sold in a Day Key:  = 4 cupcakes

Strawberry	  
Chocolate	    
Cherry	 
Choc-chip	   

- 1 At the bus terminal buses arrive and depart at regular intervals. This picture graph shows the number of buses that departed the bus terminal in one week. Use the graph and the key to answer the following:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
   	    	    	      	     	     	   

Key:  = 10 buses

- a On which day did 55 buses depart?
- b Which is the terminal's busiest day?
- c How many buses depart on this day?
- d How many buses leave on Tuesday?
- e How many more buses depart on Friday than Saturday?

- 2 This graph shows the number of tickets bought at the local cinema.

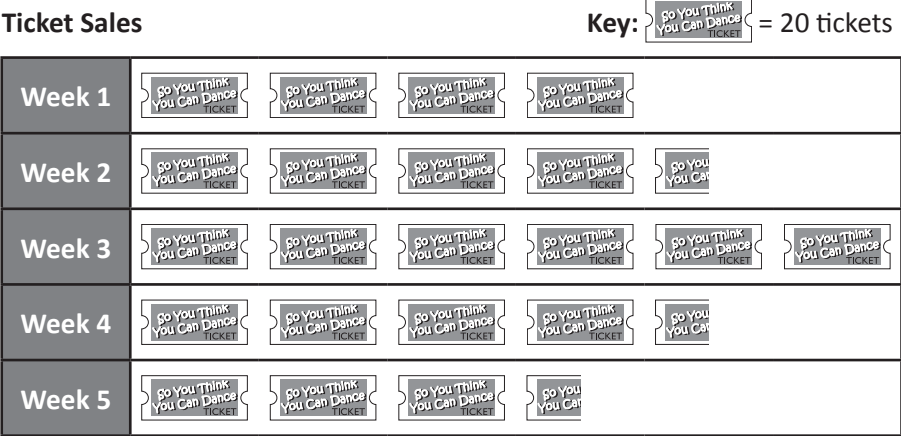
Movie Classification	Tickets Bought
Comedy	     
Children	     
Horror	   
Action/Drama	   

Key:  = 100 tickets

- a How many tickets were bought for Comedy and Children movies?
- b What was the total amount of tickets bought?

Types of graphs 1 – picture graphs

3 5F put on their own version of “So You Think You Can Dance”. Use the graph and key to answer the following:



- a How many tickets does each  represent?
- b How many tickets were sold in Week 1?
- c How many tickets were sold in Week 5?
- d In which week were the most tickets sold?
- e How many tickets were sold that week?
- f During which two weeks were the same number of tickets sold?
- g How many more tickets were sold in Week 3 than Week 1?
- h How many tickets were sold during the entire sales period?

4 In a scandal that rocked the school, it was found that ticket sales data were fudged. The maximum attendees for any one week was actually 60.

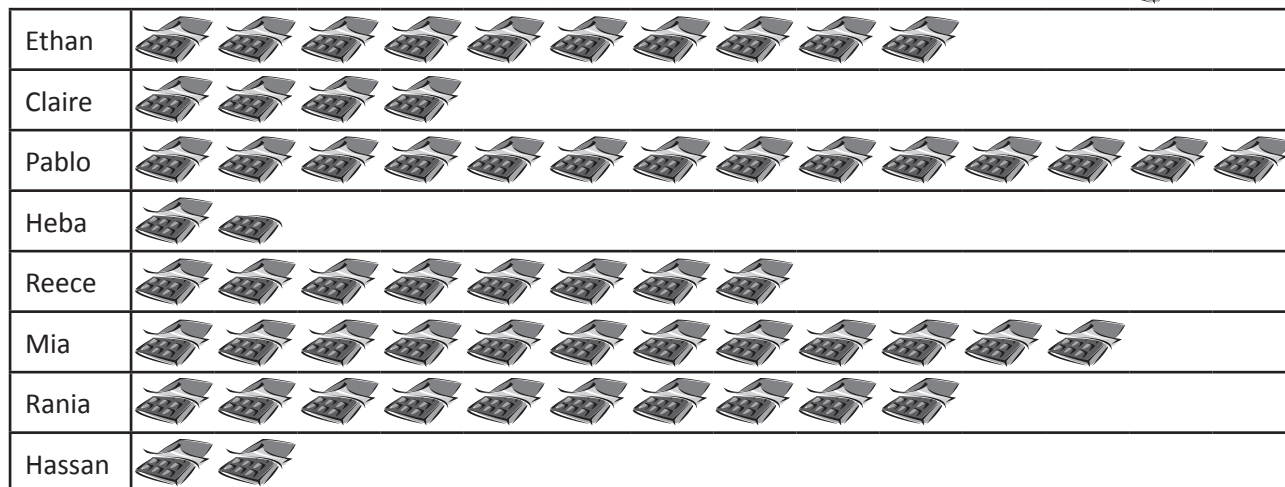
- a How many tickets does each symbol now represent?
- b How many tickets were really sold during the entire sales period?

Types of graphs 1 – picture graphs

- 5 Students sold chocolates to raise money for charity. This picture graph shows their collection for the first week. Use this graph to answer the following:

Week 1 Chocolate Sale

Key:  = 4 bars



- a Who sold 56 chocolate bars?

- b Who sold $\frac{1}{2}$ dozen bars?

- c Mia sold chocolate bars.

- d How many bars did Ethan sell?

- e How many bars were sold altogether?

- f If each bar sold for \$2, how much money did the group raise for charity?

- 6 Bars sold in Week 2 of the charity drive appear in the tally column of this table. Represent this information using symbols. The first student has been done for you:

Week 2 Chocolate Sale

Key:  = 4 bars

Student	Tally	Picture Graph
Ethan	       	     
Claire	     	
Pablo	    	
Heba	   	
Reece	  	
Mia	    	
Rania	   	
Hassan	       	

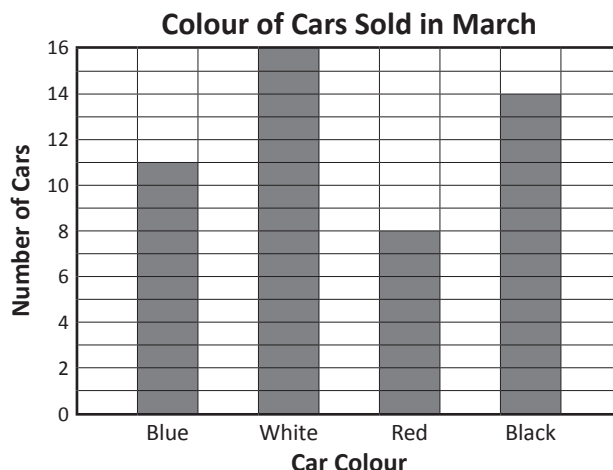
- a During Week 2, how much money was raised altogether? Each chocolate bar is \$2.

- b A prize was given at the end of the two weeks to the student who raised the most money. Who won?

Types of graphs 1 – column graphs

We often use column graphs when we want to compare data. All column graphs have a title and each axis is labelled.

From this we can quickly see that 16 white cars were sold in March and that this was the most popular colour choice.



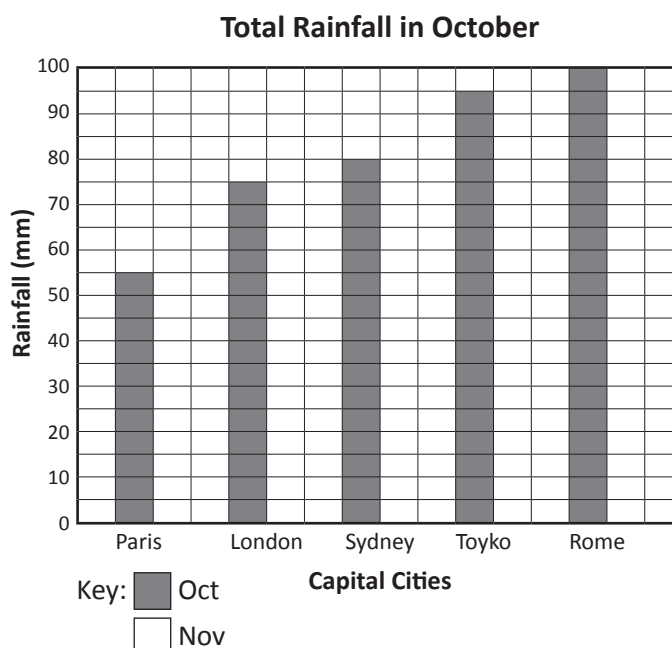
1 Answer the questions about this column graph:

- a Which city had the highest rainfall in October?

- b What was this city's rainfall?

- c Which cities had a rainfall between 70 mm and 90 mm?

- d How many more millimetres of rain did Rome have than Paris?



2 Below are the November figures for the same cities. Add them to the graph (above). Think first how best to do this:

Paris 65 mm

London 40 mm

Sydney 95 mm

Tokyo 60 mm

Rome 30 mm

- a Will you use the same colour columns?

- b Will you need to change anything else on the graph?

3 Write a problem using the new data for a partner to solve:

Types of graphs 1 – column graphs

- 4 The after care kids are staging a mutiny. They are over watching the same DVDs and making popcorn every day and want to do something new and exciting on Wednesdays. This table shows the activities they'd prefer.

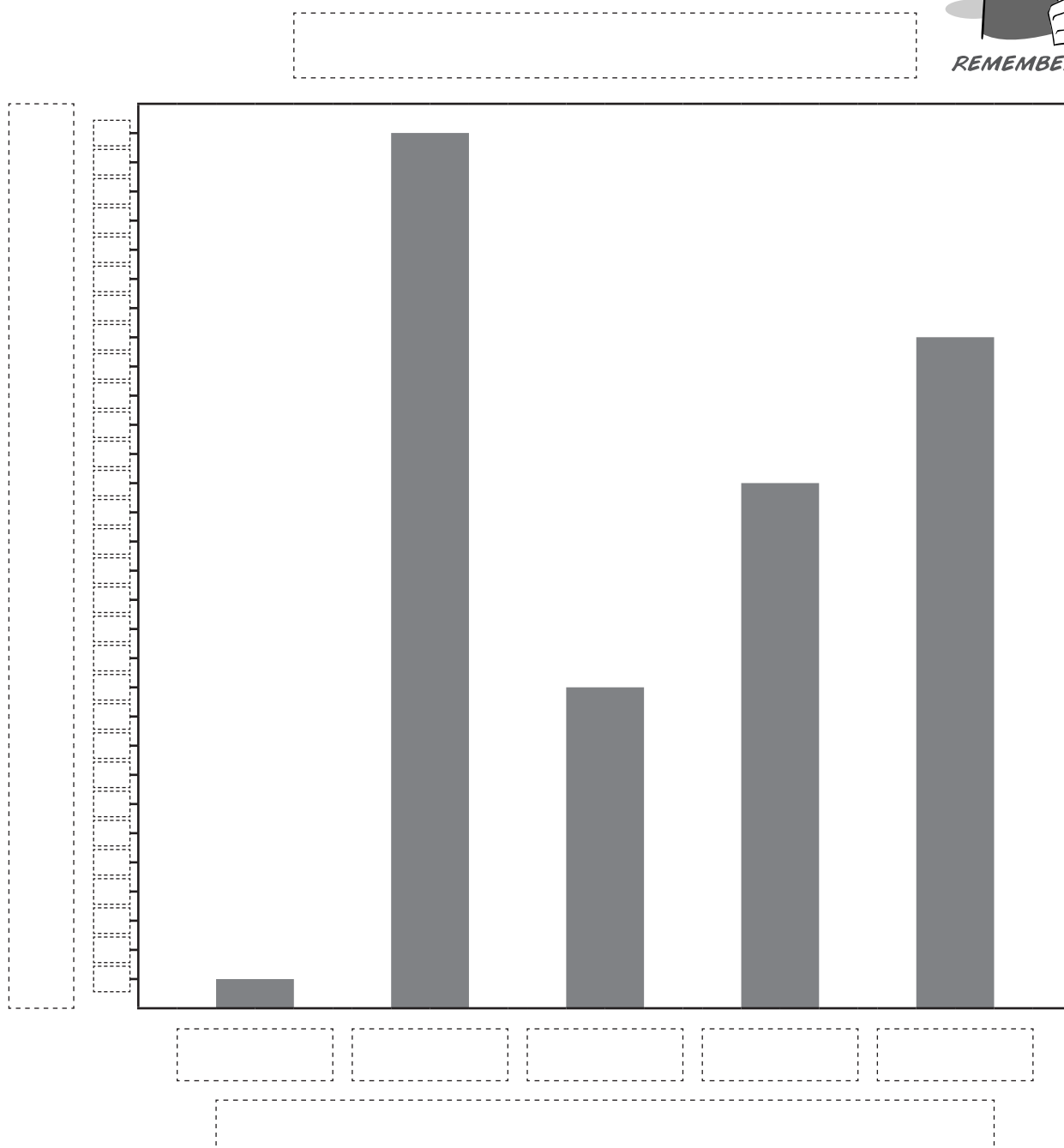
Activity	Number of Students
No change	1
Swimming	30
Art	11
Football	18
Dancing	23

- a Help them present a case to the principal by completing the column graph:

- ☐ Name your graph and both axes
- ☐ Label each column
- ☐ Select and label an appropriate scale



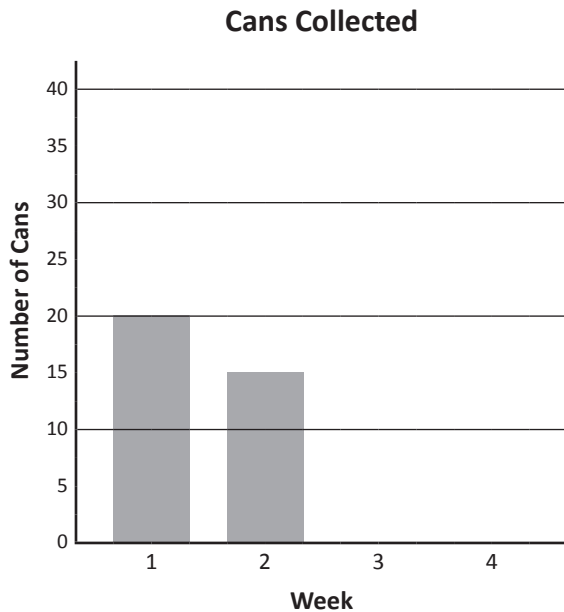
REMEMBER



- b What are some key issues on the graph you'd point out? Work in a small team to come up with a solution. Pretend your teacher or another group is the principal and present your case.

Types of graphs 1 – column graphs

- 5 5D decide to run a recycling campaign and collect cans in and around the school. They recorded how many cans were collected each week and started constructing this column graph. In Week 3 they collected 40 cans and in Week 4 they collected 10 cans.



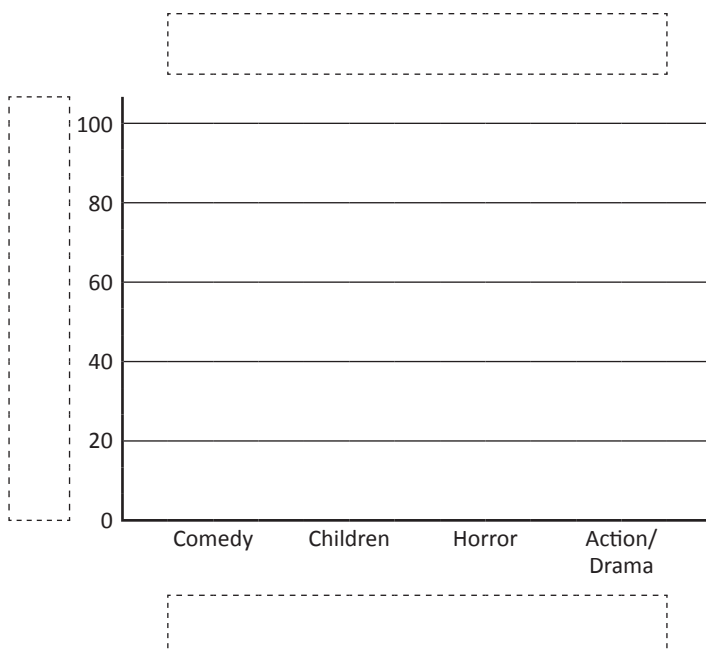
- a Add Week 3 and 4 data to the graph.
- b There was a soft drink special at the local store during one of the weeks. Which week do you think it was and why?

- c How many cans were collected in all?

- d If each can is worth 5¢, how much money did 5D make from the campaign?

- 6 The same information can be represented in different graphs.

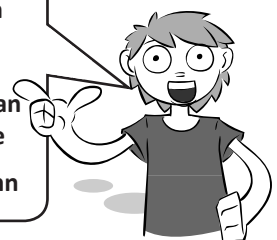
- a Design a column graph to represent the data shown in this picture graph.



Type of Movie	Ticket Sales
Comedy	
Children	
Horror	
Action/Drama	

Key: = 20 tickets

- ☐ Name your graph
- ☐ Label both axes
- ☐ Select and label an appropriate scale
- ☐ Label each column



REMEMBER

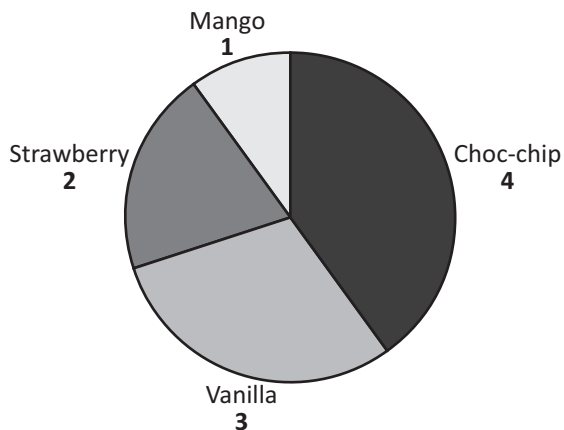
- b If you ran a cinema and wanted to plan your weekly movie schedule, which graph would you prefer? Which type of graph makes it easier to analyse and compare data?

Types of graphs 2 – pie charts

A pie chart, also known as a sector graph, shows data as parts of a whole. The circle represents the total amount while the segments are the parts. When we compare the parts to the whole, we're looking at proportion. This is often written as a fraction.

This pie chart shows the favourite ice cream flavours of 10 people.

Favourite ice cream flavours of 10 people

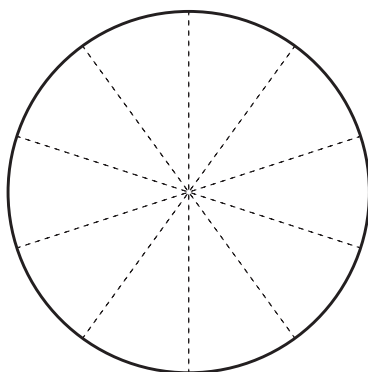


The table below summarises the information displayed on this graph.

Category	Amount	Fraction
Vanilla	3	$\frac{3}{10}$
Strawberry	2	$\frac{2}{10}$
Mango	1	$\frac{1}{10}$
Choc-chip	4	$\frac{4}{10}$
Total	10	$\frac{10}{10}$

- 1 Colour and label this pie chart according to the information in the table:

Favourite colours of 10 people

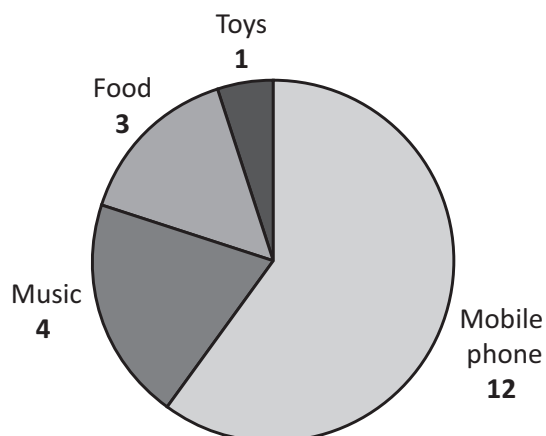


Category	Amount	Fraction
Red	3	
Blue	2	
Yellow	5	
Total		

- 2 A group of students was surveyed to find out what they spend their pocket money on. This pie chart shows the results. Circle True or False next to each statement.

- More than half the students surveyed spent their money on a mobile phone.
True / False
- $\frac{4}{20}$ surveyed spent their money on food.
True / False
- 20 students were surveyed in total.
True / False

What do students spend their pocket money on?

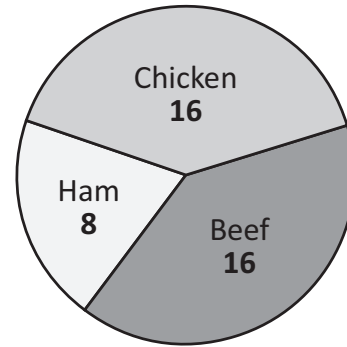


Types of graphs 2 – pie charts

- 3 5F and 5H were planning a pizza party and conducted a survey of favourite toppings. This pie chart shows the results.



Pizza Topping Survey



- a Complete the summary table if there are 40 students altogether.

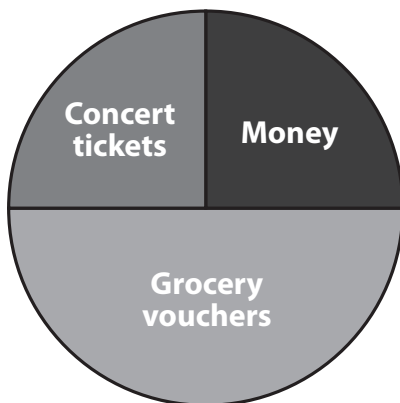
Category	Amount	Fraction
Chicken		
Ham		
Beef		
Total	40	$\frac{10}{10}$

- b Their teacher said they could order 10 pizzas. How many of each flavour should they get?

Chicken Ham Beef

- 4 To boost ratings, Radio Non-Stop-Hits ran a promotion where they gave away prizes every hour. This pie chart shows the distribution of 60 prizes that they gave away.

Types of Prizes



- a How many of each prize were given out?

Concert tickets

Grocery vouchers

Money

- b The radio station's accountant realised the pie chart was correctly divided but there'd been a miscalculation in the number of prizes given out. There'd actually been 25 money prizes given away. Calculate the actual amounts:

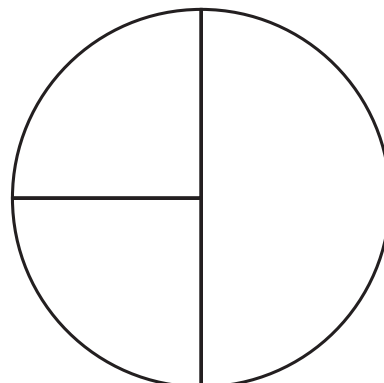
Concert tickets

Grocery vouchers

Money

- 5 The total amount that this graph is representing is 40. What could this be about? Give this pie chart a title and describe it by completing the table below:

Category	Amount	Fraction
Total		



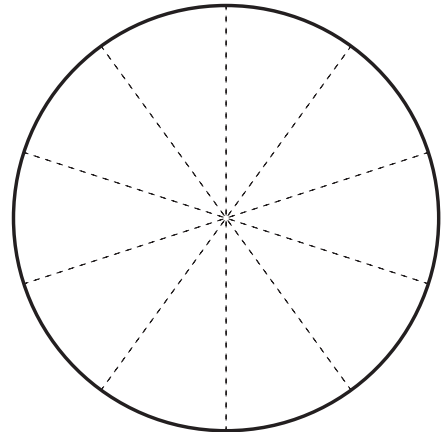
Types of graphs 2 – pie charts

6 Create your own pie chart.

- Ask 10 students to choose which of these gaming consoles they like best.
- Use the table below to collect your data.
- Show the results on a clearly labelled pie chart.

Gaming Console	Tally	Amount
Wii		
Xbox 360		
Playstation 3		
Nintendo Game Cube		

- What fraction of the group surveyed chose Wii?

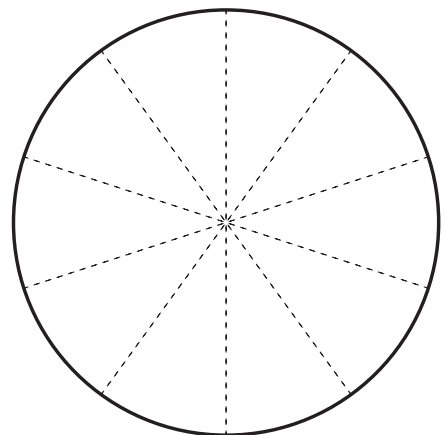


7 Survey 10 children on the topic of favourites. You can ask about favourite foods, TV shows, music or whatever you like.

- Write the topic at the top of the first column.
- Write 4 options to choose from underneath.
- Record your results in the frequency table below.
- Transfer the data from the frequency table to the pie chart.
- Label all sections correctly.

	Tally	Amount

- Write a statement about what your pie chart shows:

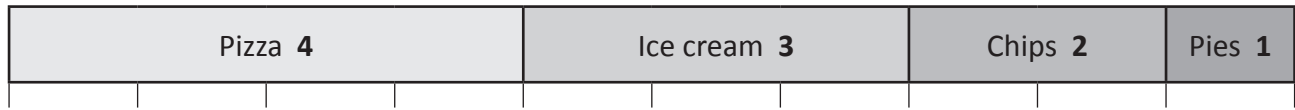


Types of graphs 2 – divided bar graphs

A divided bar graph is used to show how a total is divided.

It's similar to a pie chart except it's a rectangle divided into parts that represent the information.

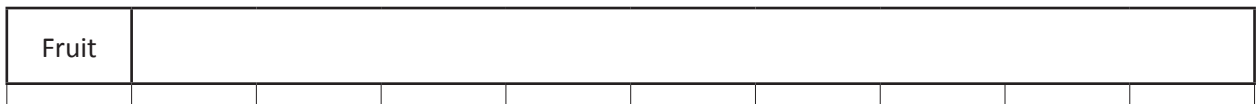
This divided bar graph shows the favourite food of 10 children.



- 1 The Nicholls' family grocery budget is \$200 per week. This table shows how the money is spent:

Fruit	Vegetables	Meat	Snacks	Drinks
\$20	\$40	\$60	\$40	\$40

- a Show the information in this table as a divided bar graph. Each space represents \$20.



- b What was $\frac{3}{10}$ of the budget spent on?

- 2 This divided bar graph shows how Paula spent \$360 on her party. Answer the questions below about how much she spent on each category. You may use a calculator.



- a What is each segment worth?

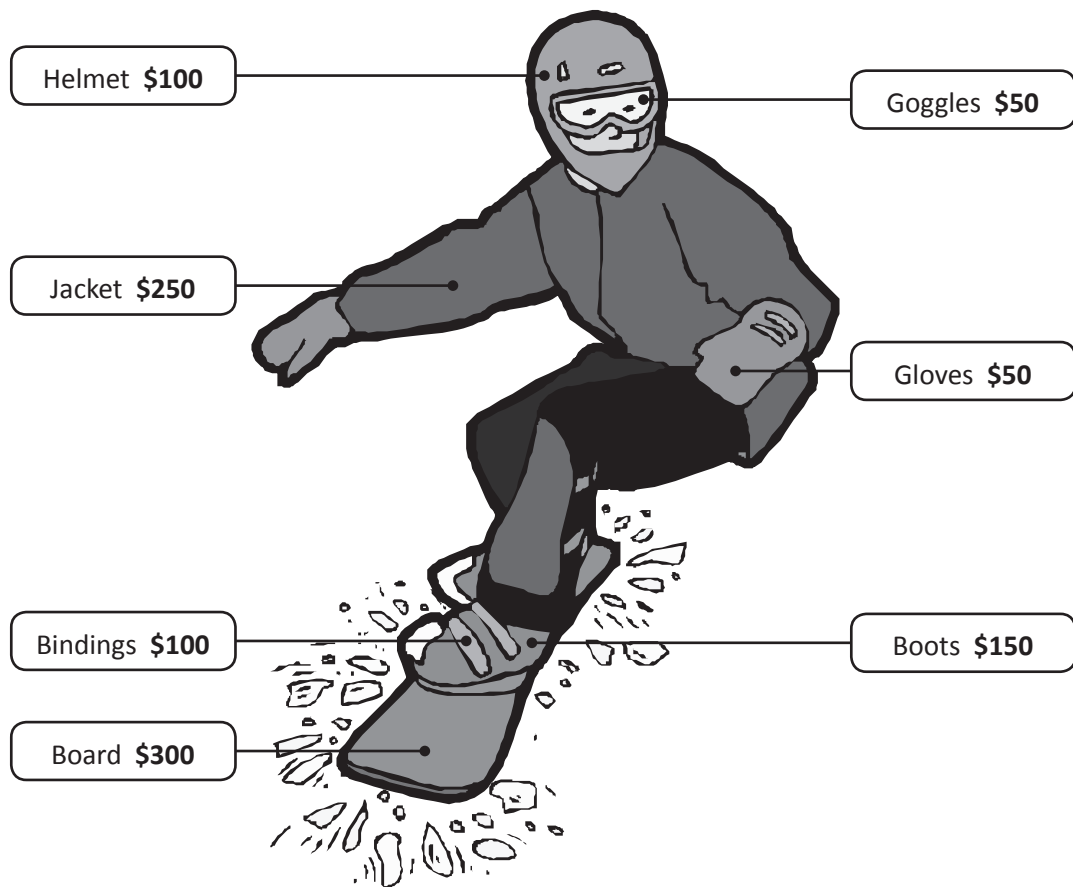
- b $\frac{1}{3}$ was spent on decorations. How much is this?

- c $\frac{2}{9}$ was spent on food and drink. How much is this?

- d How much was spent on entertainment? Show your workings below:

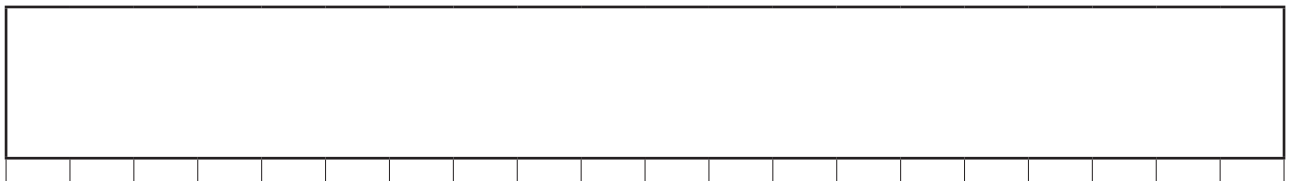
Types of graphs 2 – divided bar graphs

- 3 You want to try snowboarding and you need to ask your parents for \$1 000 to buy all the gear. Understandably, they want to know how their hard earned cash will be spent.



Complete a divided bar graph to show them. Colour in each category a different colour, label it clearly and include a title.

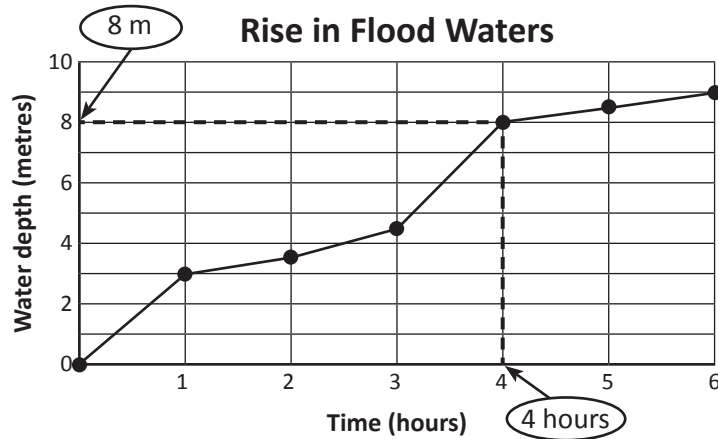
Title



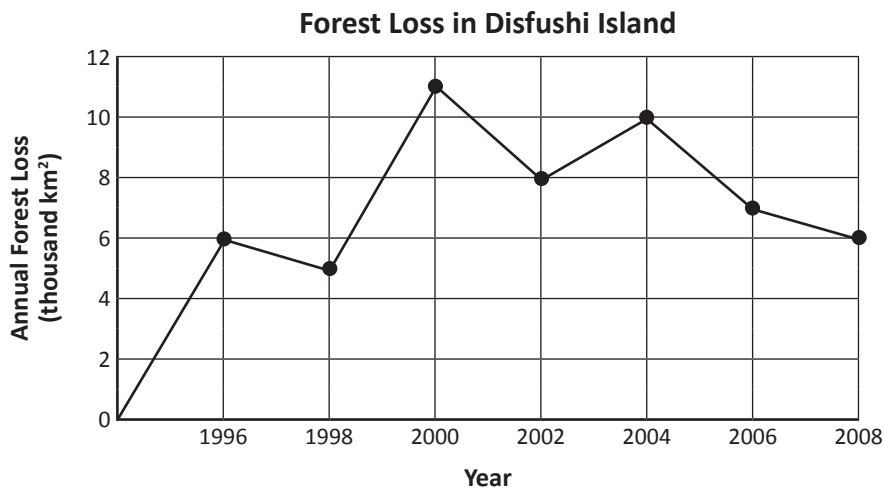
Types of graphs 3 – reading line graphs

Line graphs show how something changes over time in relation to something else. In this topic, we'll look at different examples of line graphs. Look at the line graph below. See how the more time passed, the higher the water got?

In which hour was the water 8 metres deep? Look below for how we read this information:



1 Look carefully at this line graph and answer the questions:



- a How many square kilometres of forest was lost in 1996?
- b How many square kilometres of forest was lost in 2000?
- c In which year were 7 000 square kilometres of forest lost?
- d How much more forest was lost in 2000 than in 2008?
- e Use the graph to estimate the forest loss in 1999.
- f Use the graph to estimate the forest loss in 2003.

Types of graphs 3 – reading line graphs

- 2** Polly and her friend Molly were practising reading a thermometer for homework. They boiled water in a kettle and then took turns measuring the temperature every minute as it cooled down. To make this more interesting, they made it a guessing game.

Look at the graph and answer the questions to see how they went:

- a Polly guessed that after 1 minute the temperature would be 46°C . Was she right?

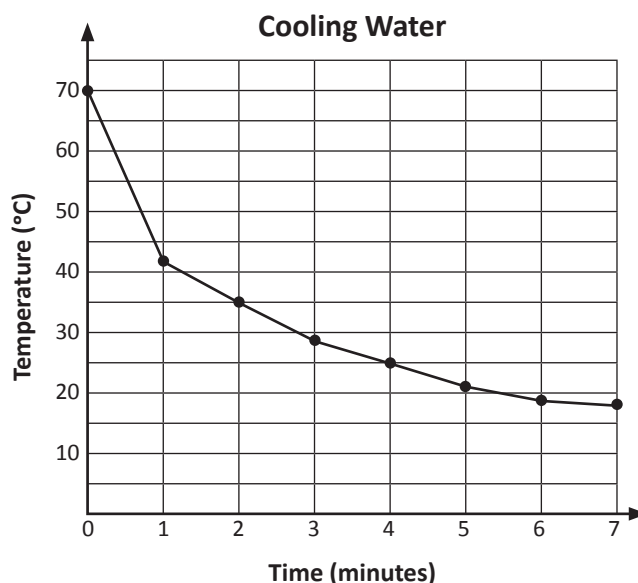
- b Molly guessed that after 2 minutes the temperature would be 34°C . Was she right?

Look closely at the graph they made showing the temperature of the water in the kettle.

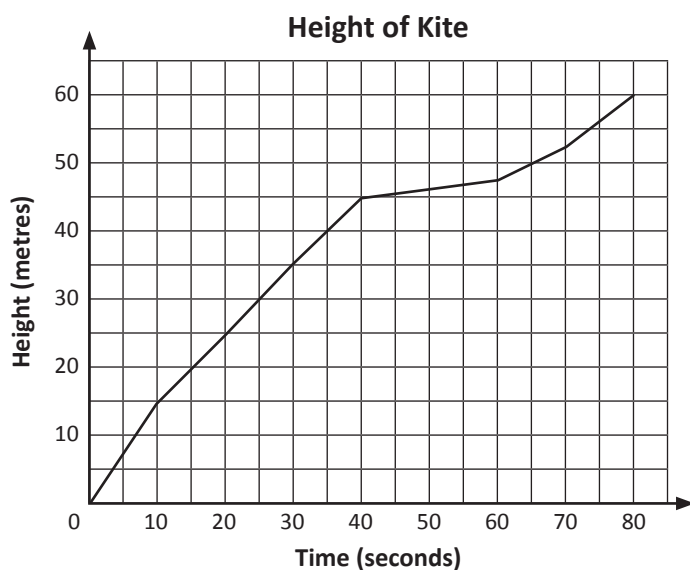
- c What is the value of each small division on the temperature axis?

- d By how much did the water cool down between 2 minutes and 4 minutes?

- e How long did the water take to cool to 19°C ?



- 3** This graph shows a kite's height at different times. Answer the questions below:

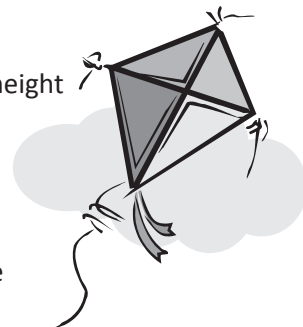


- a What was the kite's height at 65 seconds?

- b How long did the kite take to rise from 25 metres to 40 metres?

- c Estimate the height of the kite at 1 minute.

- d If the kite continued to rise, how high do you think it would be after 90 seconds?



Types of graphs 3 – constructing line graphs

Let's see how to build a line graph from a data table.
This data shows the rate of filling a fish tank with water.

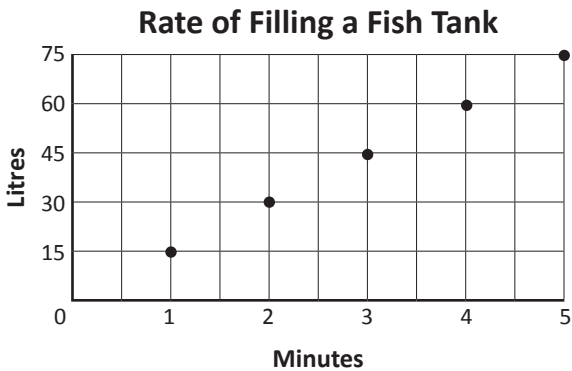
Minutes	1	2	3	4	5
Litres	15	30	45	60	75



Usually, we join the dots, but sometimes we don't.

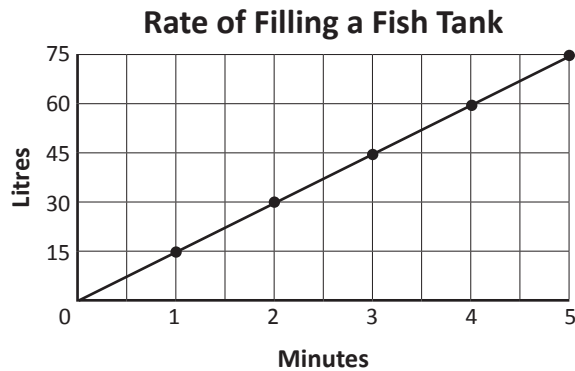
Step 1

Carefully plot the data from the table.



Step 2

Join the points with straight lines.

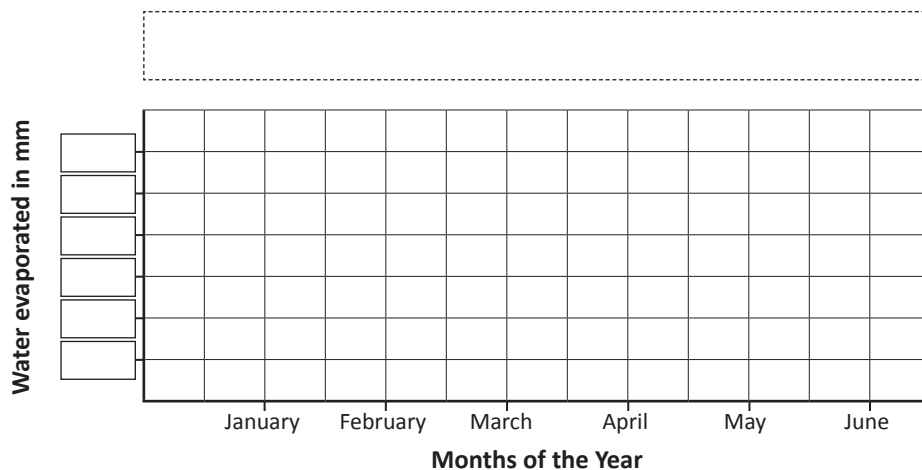


- 1 The average rate that water evaporates from an indoor swimming pool is 6 mm a month.

a Complete this table to show how much water will evaporate over 6 months:

Millimetres	6					
Month	January	February	March	April	May	June

- b Label the vertical axis with an appropriate scale, then plot the points and join the points with a ruler. What else do you need to add to make this graph complete?



- c Write 2 questions about this graph and write the answers.

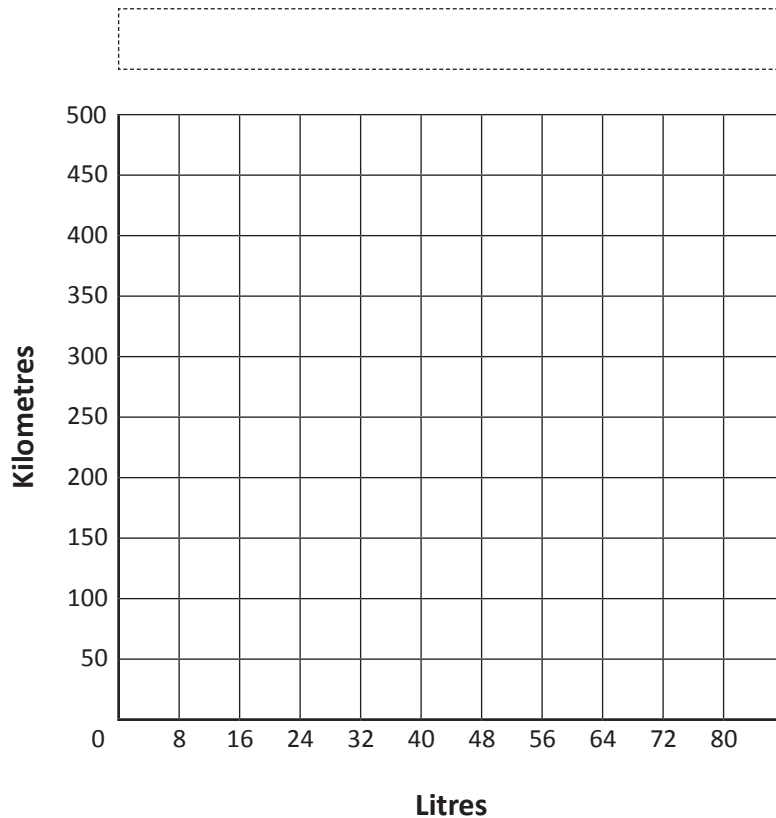
Types of graphs 3 – constructing line graphs

2 A car uses 8 litres of petrol for every 50 km travelled.

a Complete this table to show how much petrol is needed for a journey:

Litres	8	16	24	32	40	48	56	64	72	80
Kilometres	50									

b Complete this line graph:



c How far can the car go on 32 litres of petrol?

d How many litres of petrol are needed to travel 450 km?

e How far would a car travel on 12 litres of petrol?

f How far would you have travelled if you used 96 litres of petrol?

g If this car's fuel tank had a capacity of 40 litres, how many times would you need to fill it if you wanted to travel 500 km?

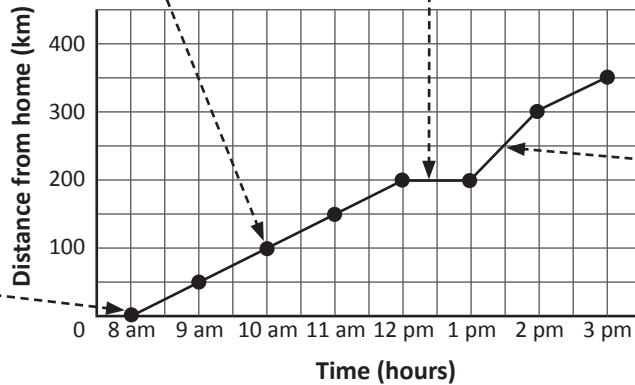
Types of graphs 3 – travel graphs

A travel graph is a type of line graph that shows the distance travelled and the time taken to travel that distance. We can tell a lot about a journey just by the shape of a line.

Between 8 am and 12 pm, it travels 200 km. This is 50 km per hour.

Here we see the car stops for one hour. We know this because it stays at 200 km from home between 12 pm and 1 pm. This tells us it's not moving.

Journey of a Car



This car leaves home at 8 am for a holiday.

Between 1 pm and 2 pm, the car travels at 100 km per hour.

1 This travel graph shows the journey of the Henderson family on a driving holiday.

a What time did they leave home?

b How long was their first rest stop?

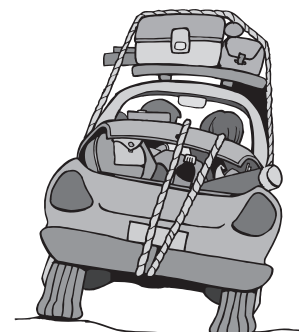
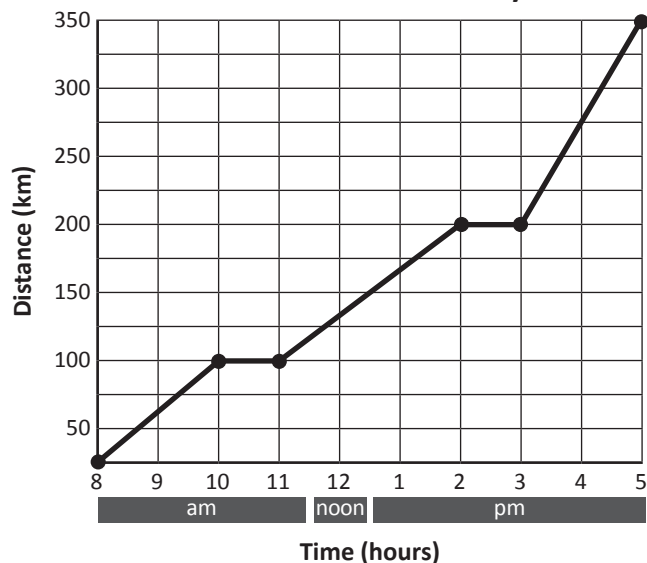
c How far had they travelled by 10 am?

d At what speed were they travelling between 3 pm and 5 pm?

e What could they have been doing at 2.30 pm?

f How long was the journey, excluding rest stops?

The Henderson Holiday



Types of graphs 3 – travel graphs

2 Look carefully at this journey of a cyclist and fill in the blanks.

a I started training at .

b I met a friend for breakfast at .

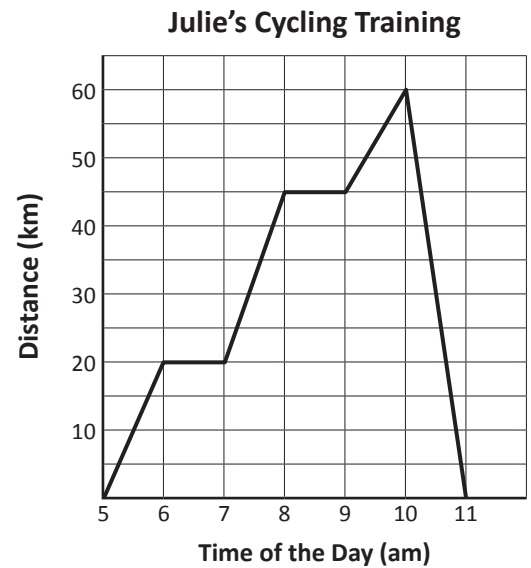
I continued again at .

c By 8 am I had cycled km.

d Due to a flat tyre, I had to stop again at .

e I turned around to cycle all the way home at .

f I got home at and had a nice long bubble bath.

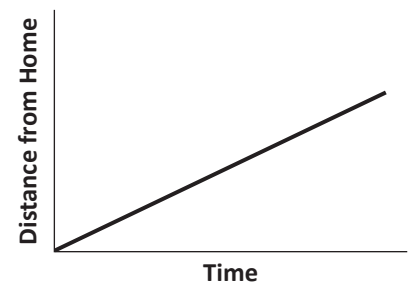
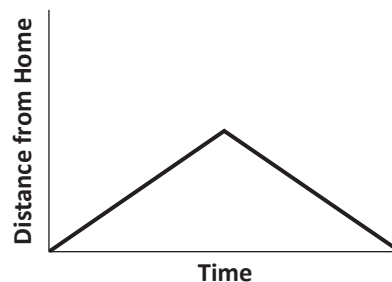
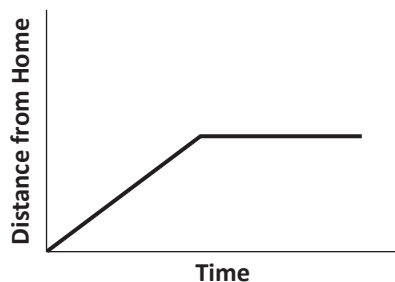


3 Connect each travel graph to the matching statement with a line.

I was on my way to school when I felt sick, so I turned around and went home again.

On the way to the shops we stopped to get petrol.

We travelled at the same speed, not stopping until we got there.



Collecting and analysing data – frequency tables

Raw data is often collected in a frequency table. Tally marks are a quick way to record numbers. When we're finished, we add the marks to find totals:

Car Types in Car Park	Tally	Frequency
4WD		20
Sedan		17
Station wagon		20
Hatchback		14

- 1 Charlie sold drinks at the beach for an hour each day. He wrote down the drinks he sold each day:

Monday	Coke	Lemonade	Water	Juice			
Tuesday	Juice	Juice	Coke	Coke			
Wednesday	Water	Juice	Juice	Juice	Coke	Lemonade	
Thursday	Water	Water	Water	Coke	Coke	Juice	Lemonade
Friday	Lemonade	Water	Juice	Coke	Coke	Juice	
Saturday	Coke	Coke	Coke	Juice	Juice	Water	Water
Sunday	Lemonade	Lemonade	Coke	Juice	Water	Coke	

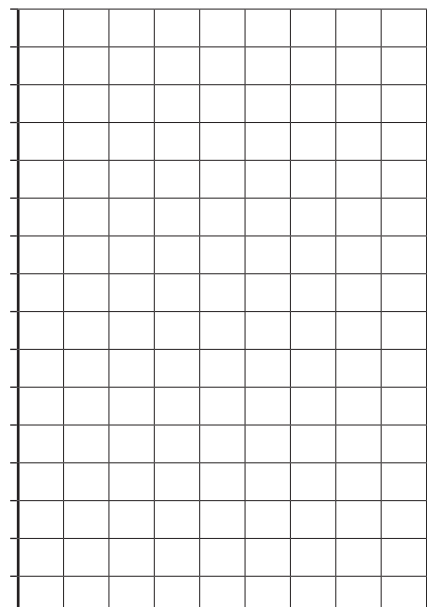
- a This is a time-consuming way to record data. Show Charlie how to set up a frequency table to record the same data faster. The first one has been done for you.
- b Represent your data in a column graph:

Type of Drink	Tally	Frequency
Coke		13
Juice		
Water		
Lemonade		



REMEMBER

- ☐ Name your graph and both axes
- ☐ Label each column
- ☐ Select and label an appropriate scale



Collecting and analysing data – mean

When we say we're finding the 'average', we're finding the mean. To do so, we add all the scores then divide by the number of scores:

$$\text{For example, the mean of 2, 3, 4, 5, 6} = \frac{2+3+4+5+6}{5} = 4$$

So if the numbers above represented eggs found by 5 children in an Easter egg hunt, it'd be fairest if each child received 4. Of course, in egg hunts, it's usually every person for themselves!

1 Find the mean in each set of data by adding the scores and then dividing by the number of scores:

a 13, 4, 7, 11, 5

$$\begin{aligned} &= \frac{13+4+7+11+5}{5} \\ &= 40 \div 5 \\ &= \end{aligned}$$

b 9, 13, 5

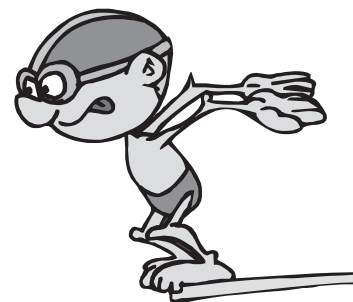
c 3, 5, 9, 2, 6

2 Look at the following diving scores:

Marita 7.2	Ben 9.4	Ari 4.6	Mia 7.6
------------	---------	---------	---------

a Calculate the mean.

b Who was closest to the mean?



3 The table below shows the number of goals scored over a 5 week period by 3 football teams:



	6/3	13/3	20/3	27/3	3/4	Total	Mean
Fantastic Footballers	2	0	2	8		16	
Serious Socceroots	3	2	4	1			3
Dangerous Dribblers	0	0	0	0	15		3

a Complete the table by filling in the missing information.

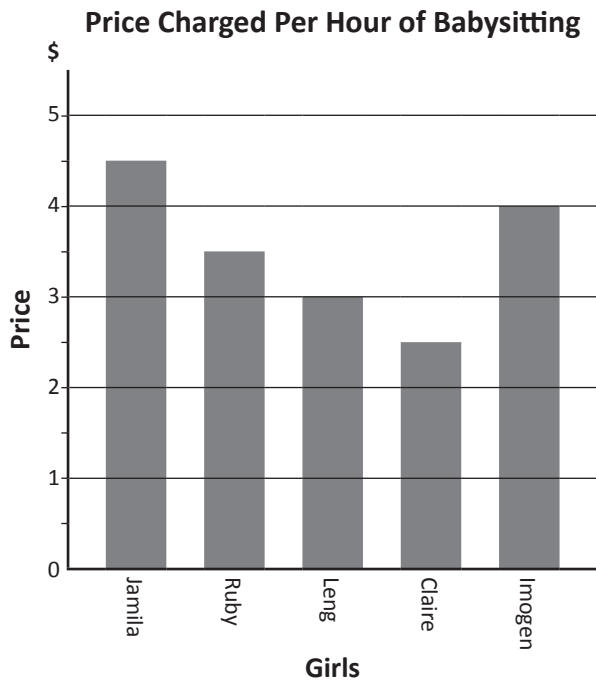
b Which team has scored the most goals?

c Which team has the highest mean?

d You're thinking of joining either the Serious Socceroots or the Dangerous Dribblers. They both have a mean of 3 goals per game. Which team do you think would be more competitive and why?

Collecting and analysing data – mean

- 4 Emma has just moved into a new neighbourhood and wants to start babysitting. She asks the girls at school what they charge and records this information in a graph:



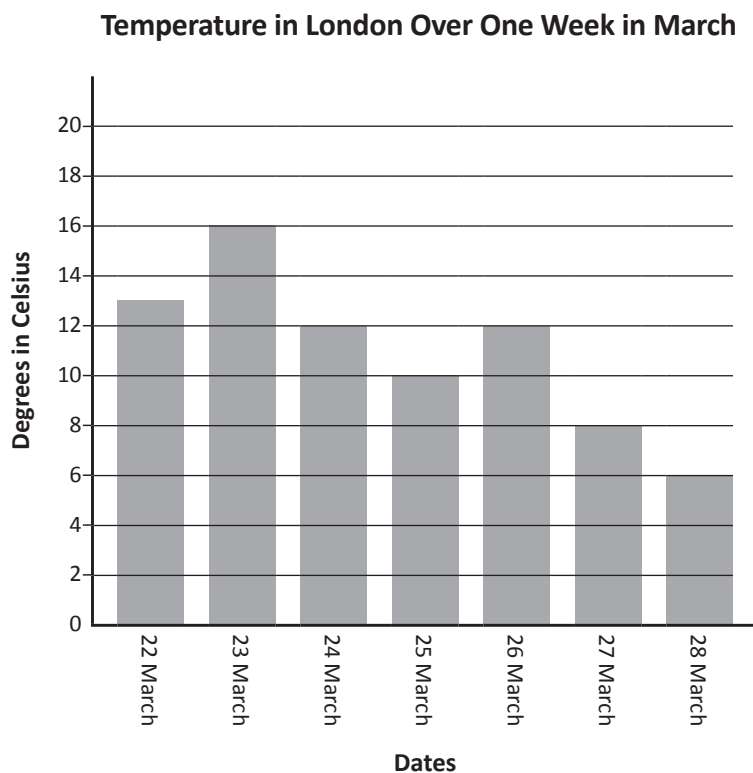
- a If Emma wants to undercut all the others, what would you recommend she charge per hour?

- b If Emma wants to position herself as an exclusive (expensive) babysitter, what would you recommend she charge per hour?

- c Emma decides to charge the mean price per hour. What does she charge?

- d Ruby decides to add a booking fee of 50¢ per hour. She reckons if online booking agencies can get away with it, so can she. How does this change the mean price charged by the group?

- 5 Here is a graph showing the temperature in London:



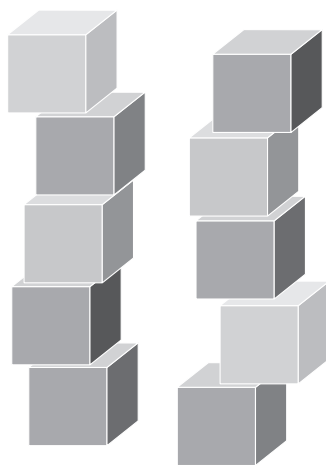
- a Calculate the mean temperature for the week:

- b If you were travelling to London for the week, what clothes would you pack?

Collecting and analysing data – mean

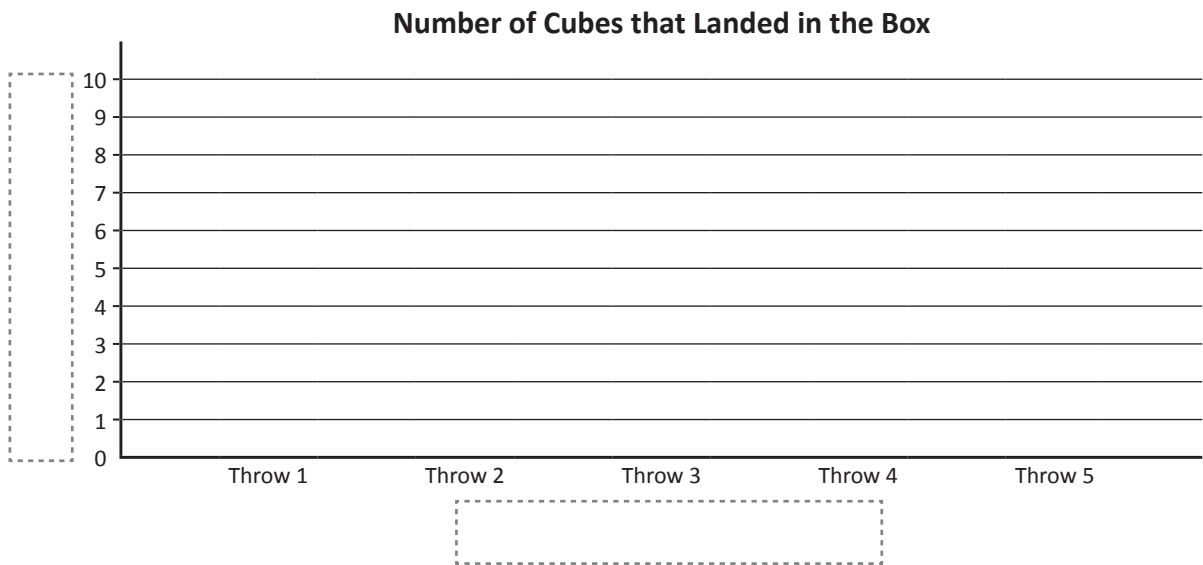
6 You and a partner are going to record how many cubes land in a box. You will need 10 unifix cubes and an empty lunchbox.

- 1 Place the lunchbox 1 metre in front of you.
- 2 Sit on the floor.
- 3 Take turns throwing all 10 cubes at the same time.
- 4 Each record your results in the data table on the right.
- 5 Repeat the process 5 times.



Throw	Tally
1	
2	
3	
4	
5	

7 Create a column graph of your results. Label each axis.



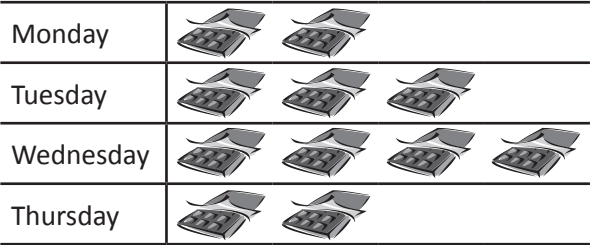
- a What is your mean number of cubes that landed in the box?
- b What was your partner’s mean number of cubes that landed in the box?
- c What was the mean of both sets of data together?
- d Do you think the mean paints an accurate picture of the process?

Collecting and analysing data – collecting data

1 Study all the different types of graphs showing sales of chocolate bars. Match each graph to its main feature by completing the table below:

Picture Graph

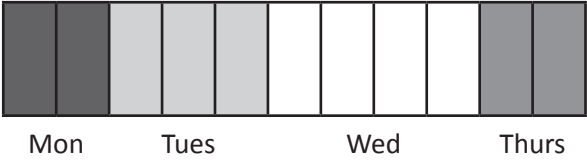
Sales of Chocolate Bars



Key:  = 10 chocolate bars

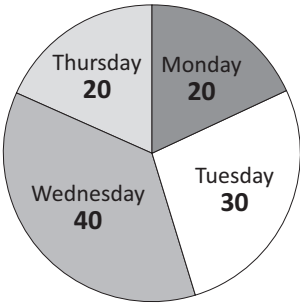
Divided Bar Graph

Sales of Chocolate Bars



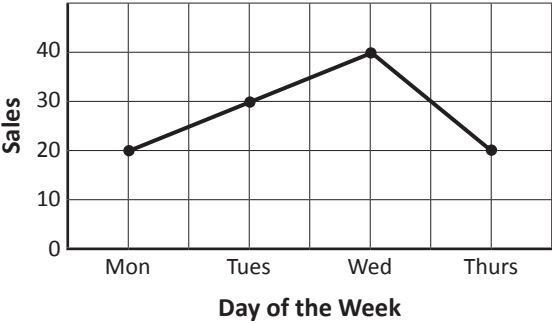
Pie Chart

Sales of Chocolate Bars



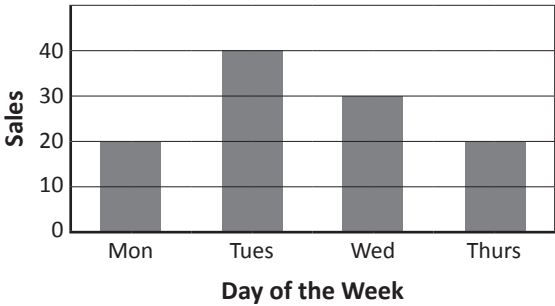
Line Graph

Sales of Chocolate Bars



Column Graph

Sales of Chocolate Bars



Main Feature	Name of Graph
Clear to see how big each category is compared to the whole. Sometimes has a key and looks like a pie.	
Shows an exact amount in each category and allows you to compare categories.	
Compares sizes of categories at a glance and takes up very little space.	
Shows numerical data using pictures. Has a key.	
Shows how data changes in relation to something – usually time.	

Collecting and analysing data – collecting data

- 2 Here are 3 different sets of data. Read over each table of data and decide which is the most appropriate graph to use.

Graph 1

Name	Number of Books
Blair	8
Charlie	4
Amity	5
Nicky	12

Graph 2

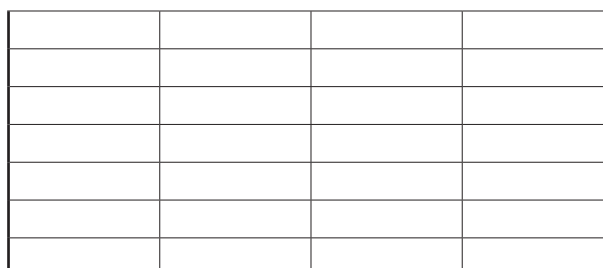
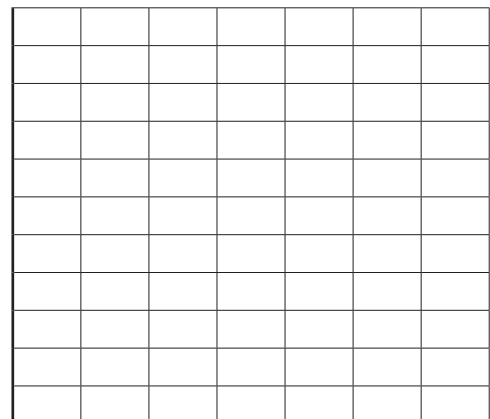
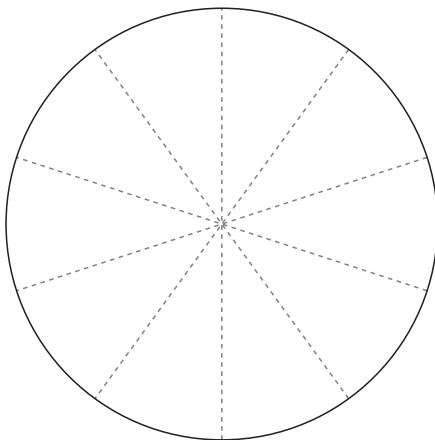
Week	Height of Plant
1	2.5 cm
2	3 cm
3	5 cm
4	7.5 cm
5	9 cm
6	9.5 cm

Graph 3

Item	Profit
Hot food	\$40
Chips	\$30
Drinks	\$20
Fruit	\$10

Construct the graphs using the templates below. You must work out the scale, label the axes and remember a heading for each graph:

- Show how many books each person read over the holidays. It should be clear to see who read the most and who read the least.
- Show how much a plant has grown over 6 weeks. It should be clear to see where the biggest growth spurt was.
- Show what the \$100 profit that the canteen made yesterday was made up of.





Many crimes are solved by grunt work. Detectives spend countless hours sifting through data. It can be one tiny fact that breaks a case open.



Read this next part very carefully. A bank was robbed during the month of May. Since it was the bank with all your savings, you have a vested interest in tracking down the offender.

An informant has told you that the crime was committed on the thief's birthday. They treated themselves to a shopping spree with your money! Apparently they crept in during a busy weekday and quietly cracked a safe.

The next three pages contain data about criminals in your area. Use the information to identify the thief and get your money back. You'll need to flick between graphs and clues to crack the case.

CLUE 1

MAY						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24 31	25	26	27	28	29	30

CLUE 2

Birthdays of Local Criminals

	EG										
	FF		SK	HC					MH		
	NK		EW	PJ		BJ	LM		CW		
DC	MC	BT	FC	BB		EK	DK	LL	RB		SM
J	F	M	A	M	J	J	A	S	O	N	D

More clues on page 25.

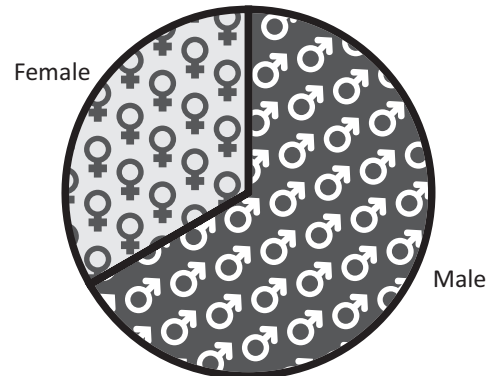
CLUE 3

Birthdates by Gender

Males	Females
04.01.75	11.02.85
23.02.86	14.02.78
17.02.66	03.03.80
02.04.73	13.05.84
04.04.75	07.07.77
24.04.67	17.10.78
10.05.81	31.10.87
23.05.82	
18.07.81	
09.08.67	
18.08.63	
26.09.66	
13.10.72	
24.12.65	

CLUE 4

Gender Breakdown of Local Criminals



CLUE 5

Known Crims

Sam McNab	Earl Wyatt
Master Criminal	Frannie Fingers
Bobette Trimbole	Emma Getaway
Ned Kelly	Shifty Keys
Dan Kelly	Betty Balacava
Ellen Kelly	Ron Biggs
Pretty-boy Jones	Buster Jones
Harry Cracker	Luke Moran
Mata Hari	Dan Cuffme
Light-fingered Larry	Carla Williams
Fred Capone	

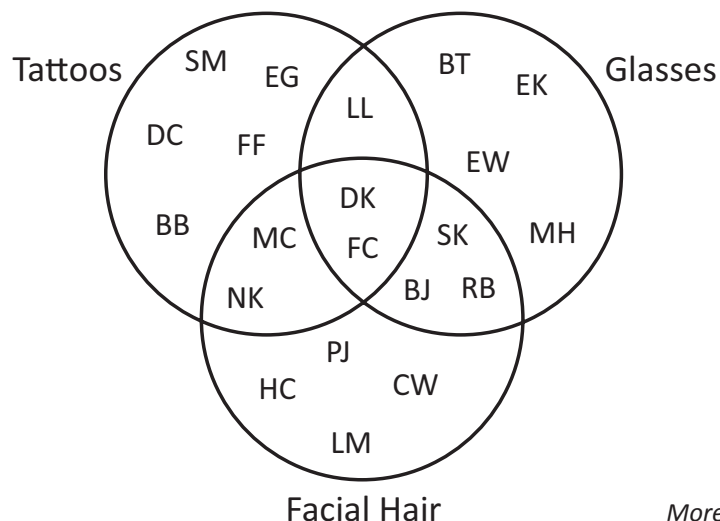
You should know who the criminal is by now!
Use the following data to find out more about them.



DISCOVER

CLUE 6

Distinguishing Features



More clues on page 26.

CLUE 7
Hair Colour

SM	DC	BB	EK	EW	FF	MH	DK	FC	CW	BJ	PJ	HC
BT		LL			RB	MC	NK	LM	SK	EG		
black		blonde			brown						red	

CLUE 8
Height of Known Criminals

	CW	PJ		
	BJ	EG	NK	LM
FF	FC	RB	MC	HC
EK	MH	DC	EW	DK
SM	BB	BT	SK	LL
150 - 159 cm	160 - 169 cm	170 - 179 cm	180 - 189 cm	190 - 199 cm
Height				

Whodunnit? Give a name and a detailed description to the police superintendent:



What to do next

Create a WANTED poster for the guilty party.



Getting ready

You work for the chocolate company Cocoa Delights. In less than an hour, you're presenting the annual report to the Board.

They're keen to know yearly sales figures, best selling lines, the breakdown of monthly expenses and how each product sells compared to the others.



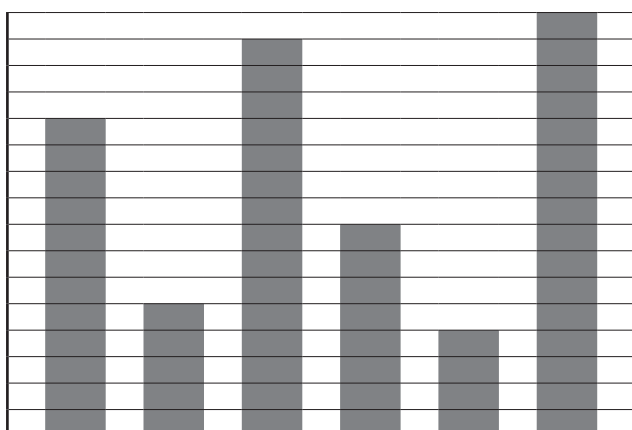
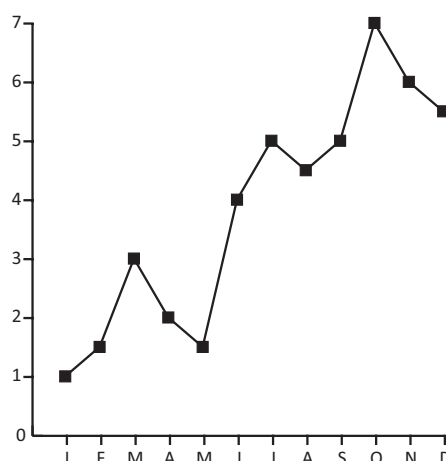
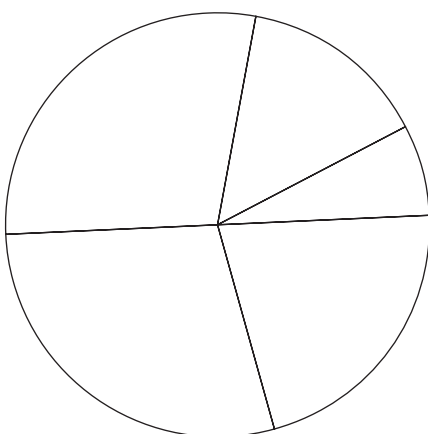
Your team has slaved to prepare the following data. However, someone didn't bother to add titles and labels to the graphs.

You don't have time to hunt the culprit. You have to fix this yourself. Fast!



What to do

Look at the graphs below and come up with some believable information that would give each graph meaning and keep the Board happy. Think about which graph would best suit each set of data. They'll need titles, labels and numbers.



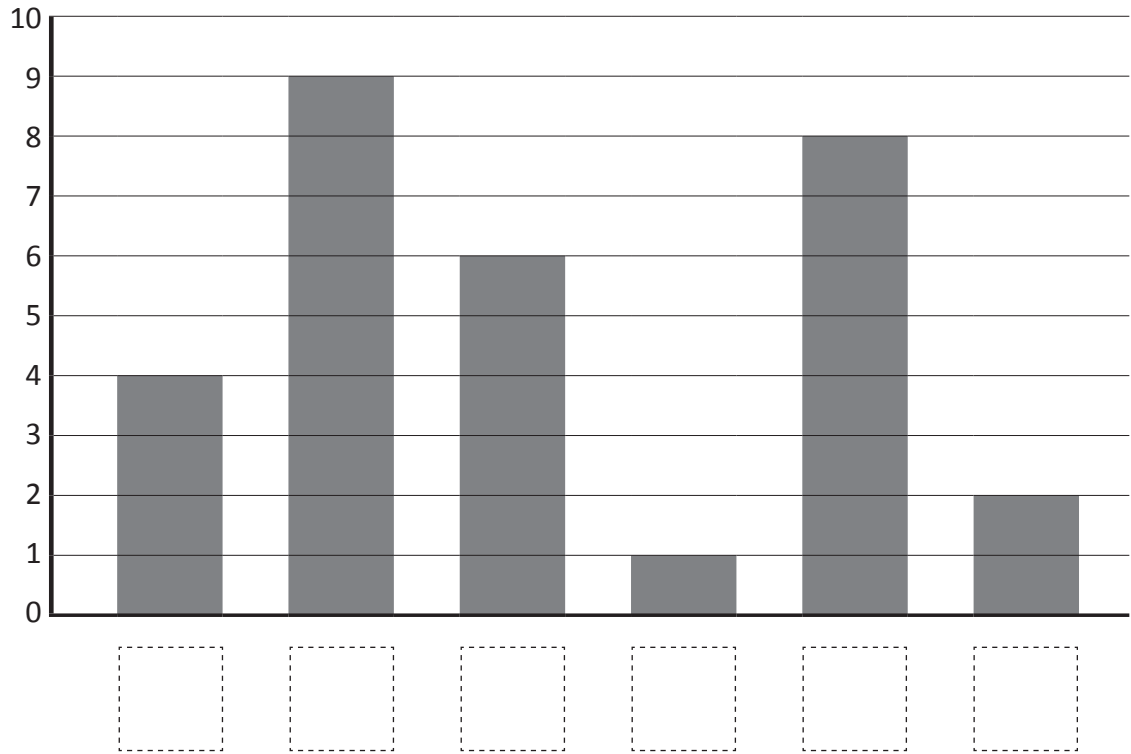
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What
to do

Follow the clues to correctly label each column with the appropriate symbol:

5N's Preferred Holiday Activities



Four times as many kids would rather go to the beach than go to an art gallery.



A holiday at Wet 'n' Wild is the most preferred option.



There are 3 times as many shoppers than there are art gallery attenders.



Five fewer people like camping than Wet 'n' Wild.



Half the number of people who like camping prefer to visit art galleries.



Poor Mr N will be bushwalking alone it seems. He'll probably get over it.

