















1. Park School collects money for three charities.

This pictogram shows how much they have collected.

 stands for £100

 Save Dolphins					
 Wildwatch					
 Plant-a-Tree					

How much more have they collected for Save Dolphins than Plant-a-Tree?



£

1 mark

The target for Wildwatch is £500

How much **more** money do they need to collect for Wildwatch?



£

1 mark

How much money have they collected altogether, rounded **to the nearest hundred pounds**?

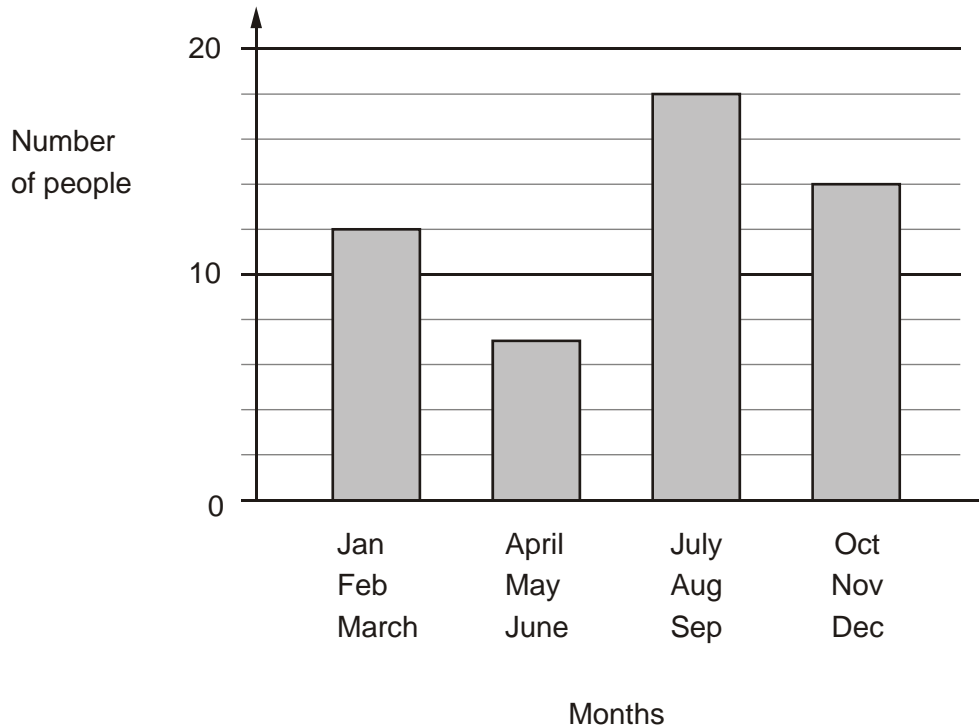


£

1 mark

2. 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?



1 mark

Nobody has a birthday in October.

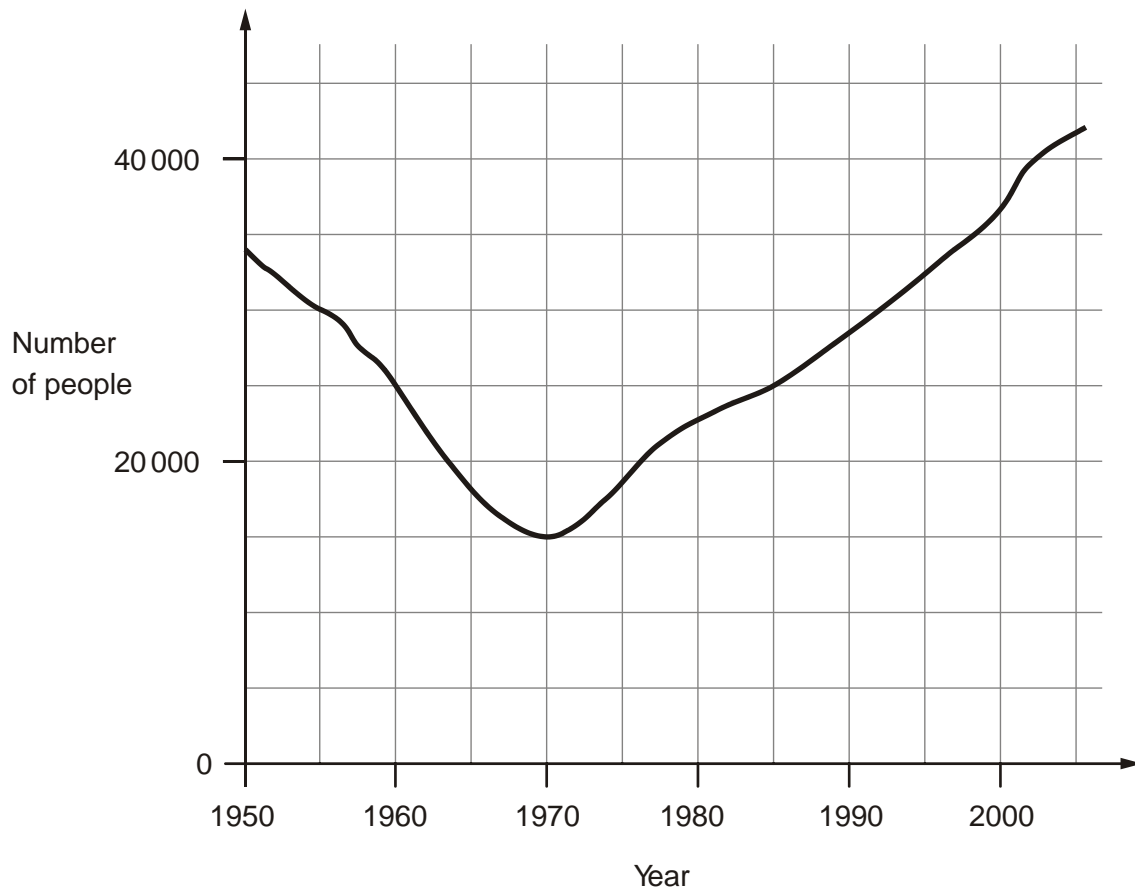
Six people have a birthday in November.

How many people have a birthday in December?



1 mark

3. This graph shows the number of people living in a town.



Look at the graph.

How many people lived in the town in 1985?



1 mark

In which year was the number of people the same as in 1950?



1 mark

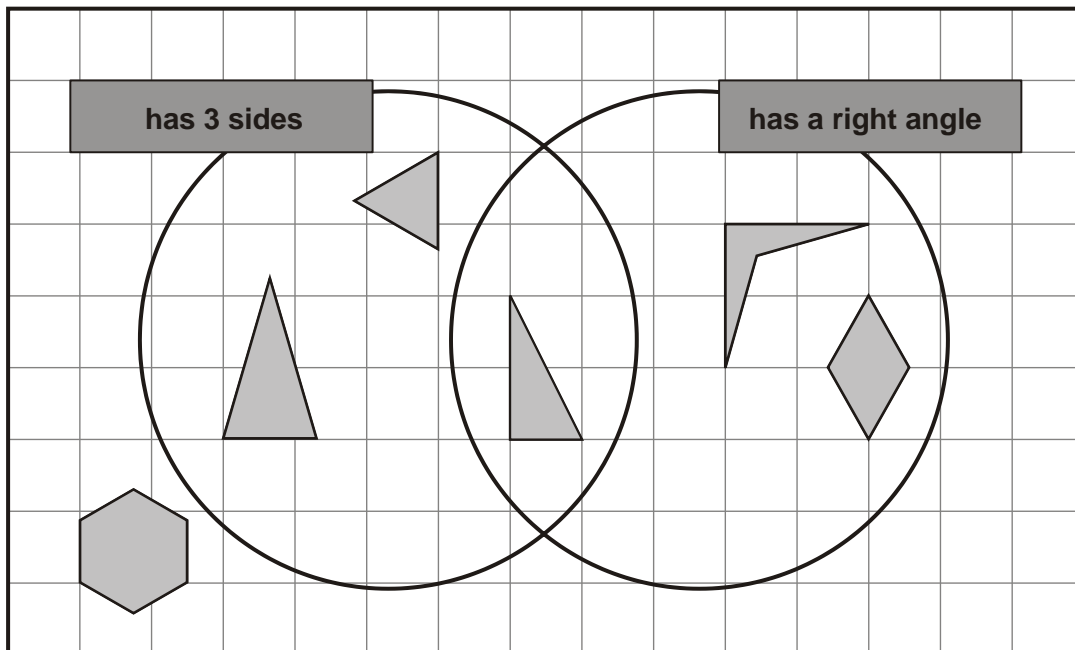
Find the year when the number of people first went below 20 000



1 mark

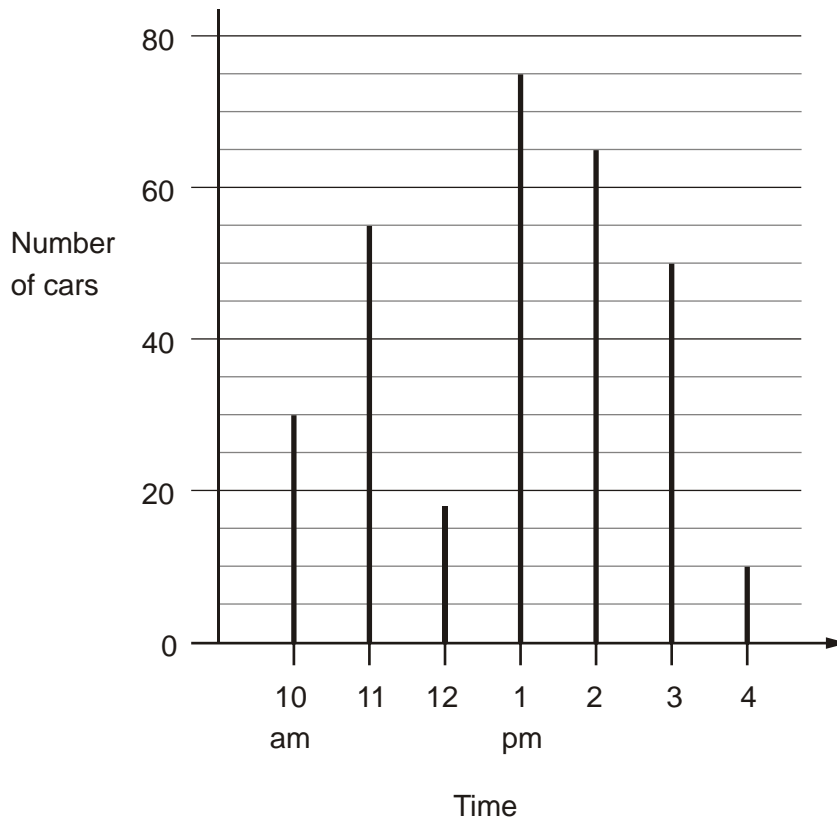
4. Here is a diagram for sorting shapes.

One of the shapes is in the wrong place.
Put a cross (✗) on it.



1 mark

5. 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?



1 mark

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

1 mark

6. Here are four labels.

even	multiples of 9	not even	not multiples of 9
------	----------------	----------	-----------------------

Write each label in the correct position on the sorting diagram below.

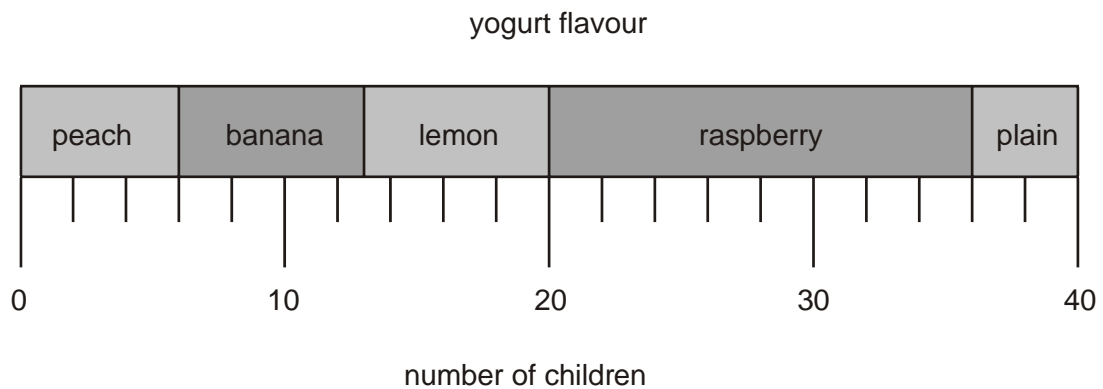


	72 54	56 84
	63 45	49 75

1 mark

7. 40 children each chose their favourite flavour of yogurt.

This chart shows the results.



How many children chose **lemon** yogurt?



1 mark

How many more children chose **raspberry** than **plain** yogurt?

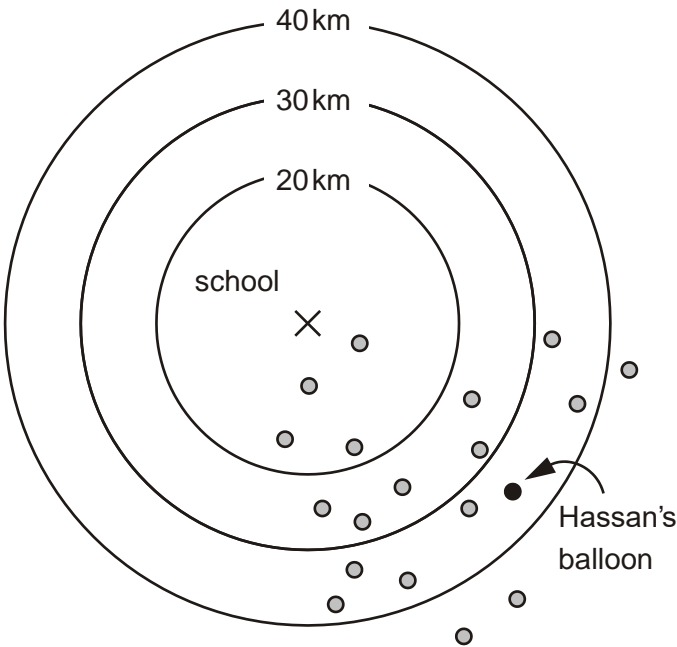


1 mark


8. Class 6 launched some balloons at a school fete.



This diagram shows how far some of the balloons travelled.




How many balloons on the diagram travelled between 20km and 30km?



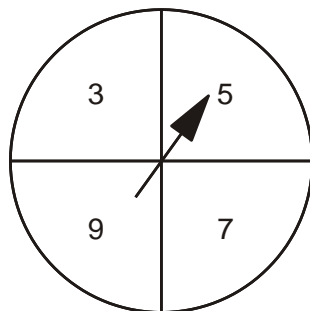
1 mark

Estimate how far Hassan's balloon travelled.

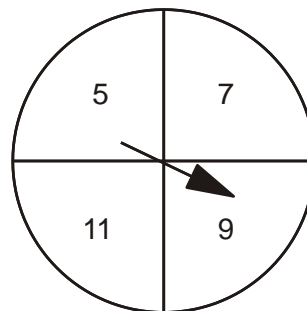

 km

1 mark

9. Here are two spinners, A and B.



A



B

Hassan spins the pointer on each spinner.

He adds his two scores together.

For each statement put a tick (✓) to show if it is **certain**, **possible** or **impossible**.

One has been done for you.



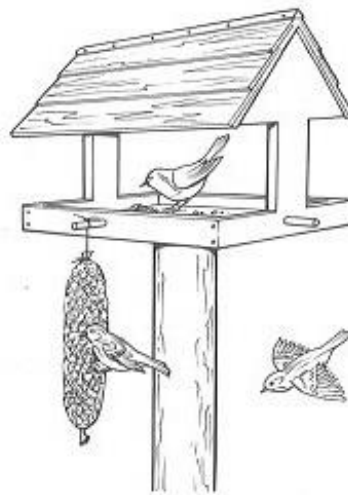
	certain	possible	impossible
The total will be more than 15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The total will be an even number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The total will be less than 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The score on A will be less than the score on B.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2 marks

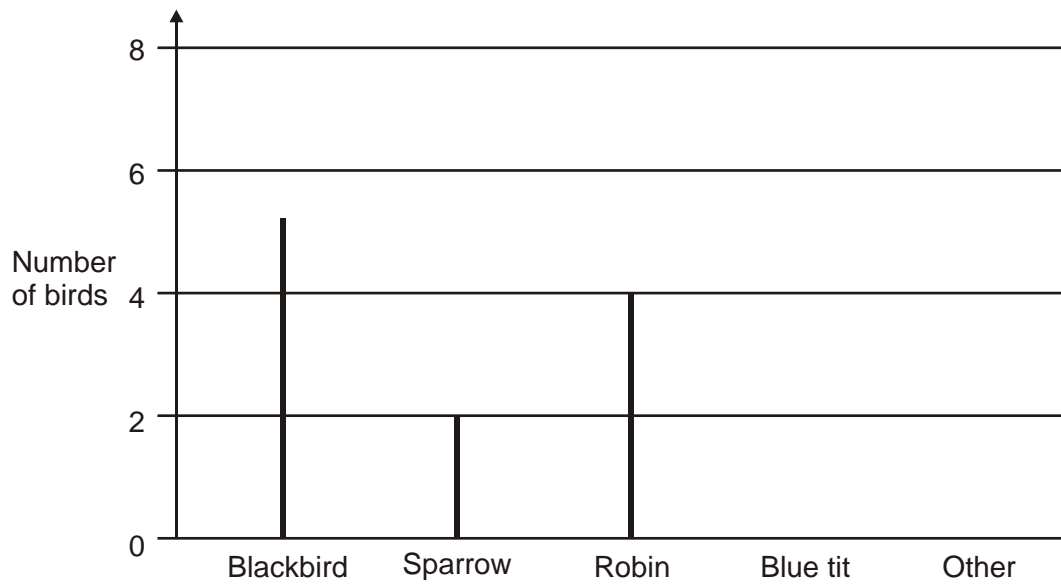
10. Rosie collects data about birds visiting a bird table.

Here are her results.

Blackbird	
Sparrow	
Robin	
Blue tit	
Other	



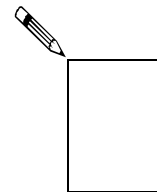
Draw **two** more lines to complete the graph.



1 mark

Rosie saw **20 birds** altogether.

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



1 mark

11. Five children have ticked this table to show on which days they are free to go out.

	Emma	David	Lin	Jack	Rosie
Mon		✓	✓		✓
Tue	✓		✓	✓	
Wed		✓			✓
Thu			✓	✓	✓
Fri	✓	✓			✓

On how many days are **more than two** children free to go out?



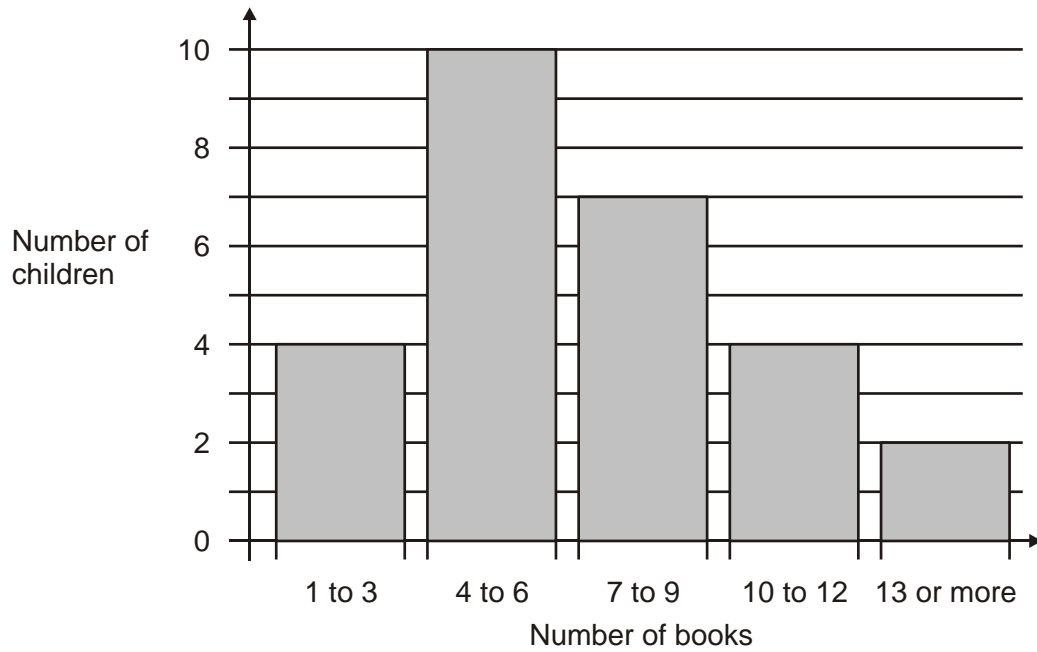
1 mark

On which days are Lin and Rosie both free to go out together?




1 mark

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



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



1 mark

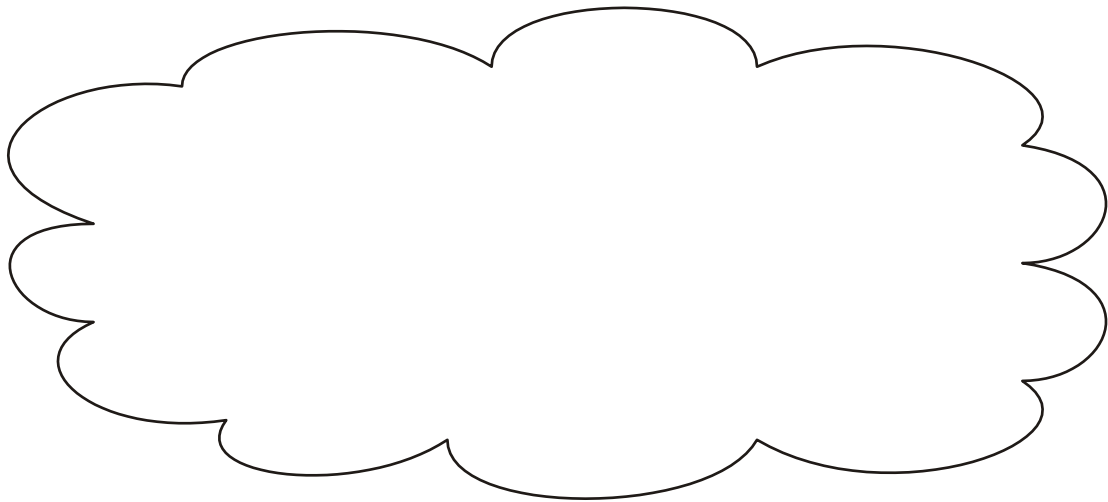
7 children read 4 books.

1 child read 5 books.

Lin says,

‘That means 2 children read 6 books’.

Explain how she can work this out from the chart.

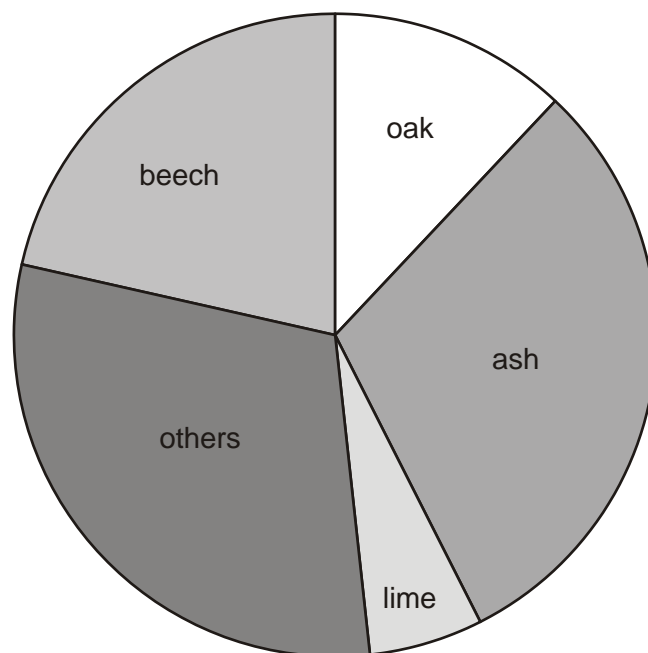


1 mark

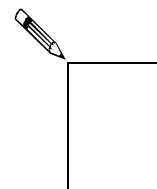
13. Class 6 did a survey of the number of trees in a country park.



This pie chart shows their results.




Estimate the **fraction** of trees in the survey that are **oak** trees.



1 mark

The children counted 60 **ash** trees.

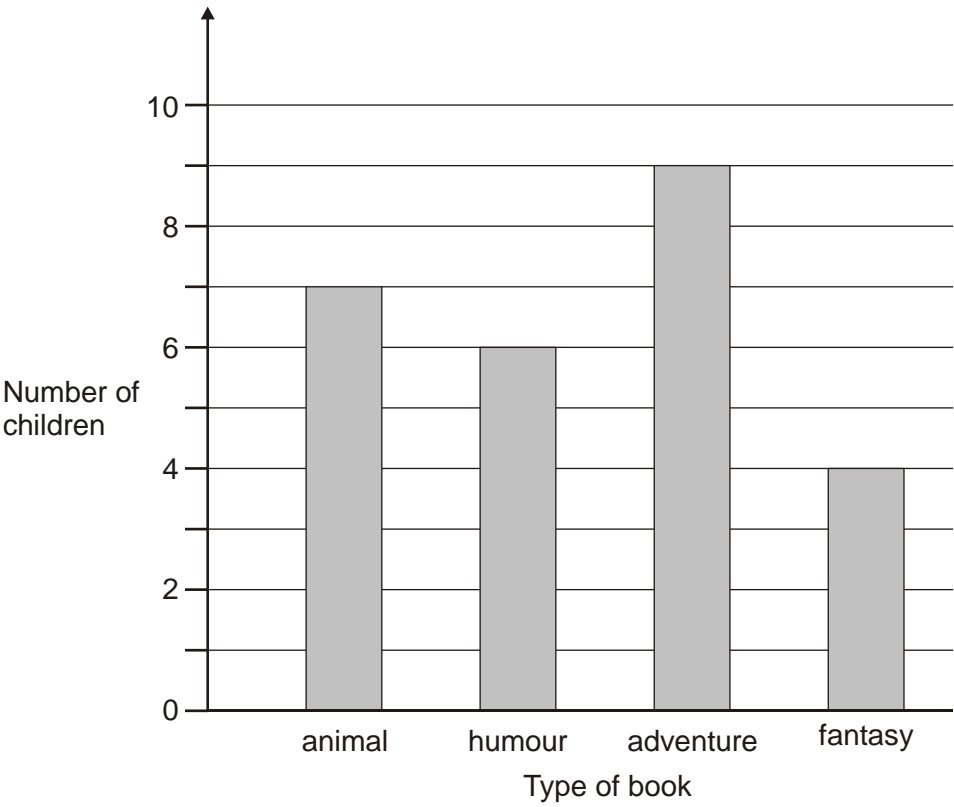
Use the pie chart to estimate the **number** of **beech** trees they counted.




1 mark

14. 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?



1 mark

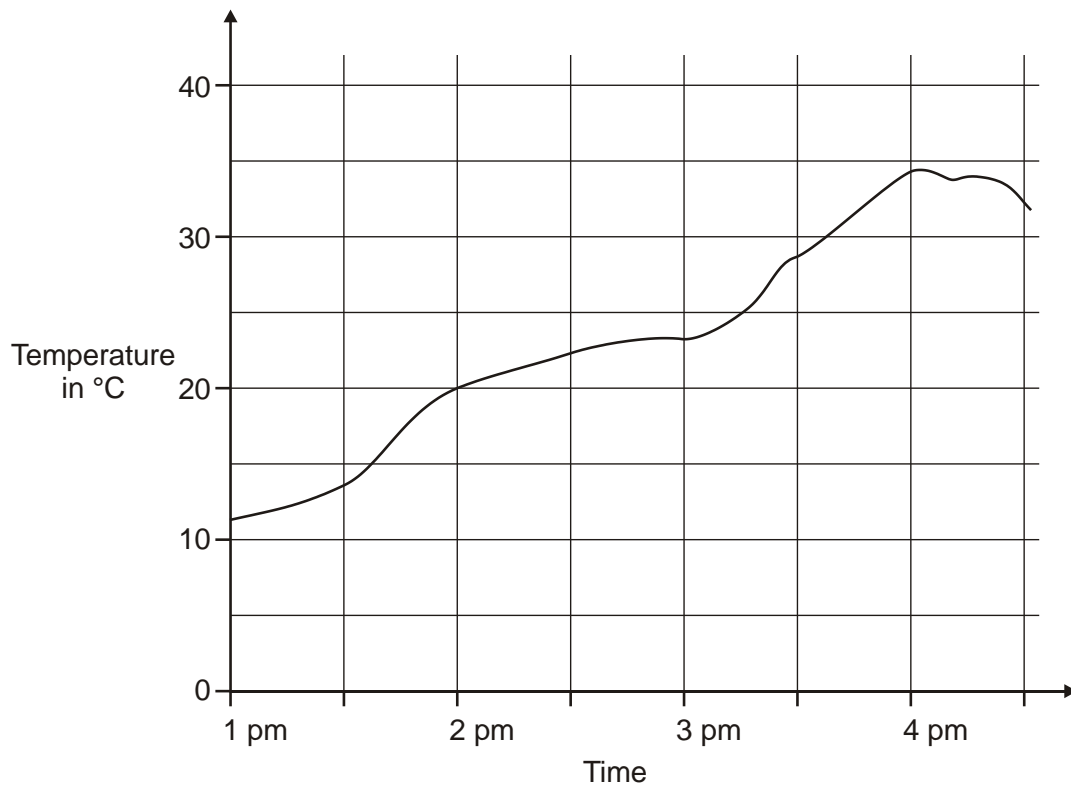
Five girls chose **animal** books.

How many boys chose **animal** books?



1 mark

15. This graph shows the temperature in a greenhouse.



Use the graph to find the time when the temperature was 25°C.



1 mark

Use the graph to find the difference between the temperature at 2 pm and the temperature at 4 pm.



degrees

1 mark

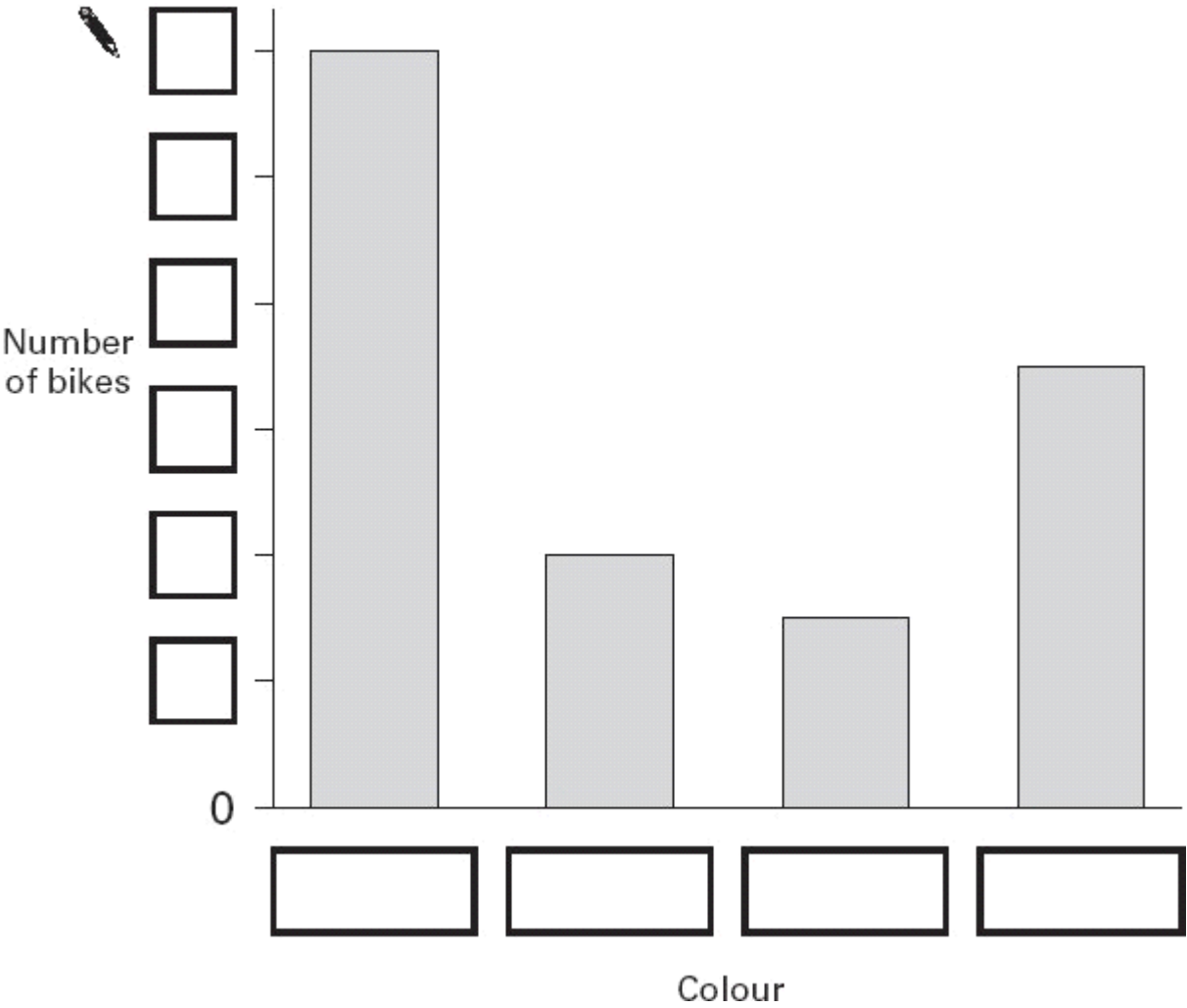
- 16.** Robbie collected information about the colours of some bikes.

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.

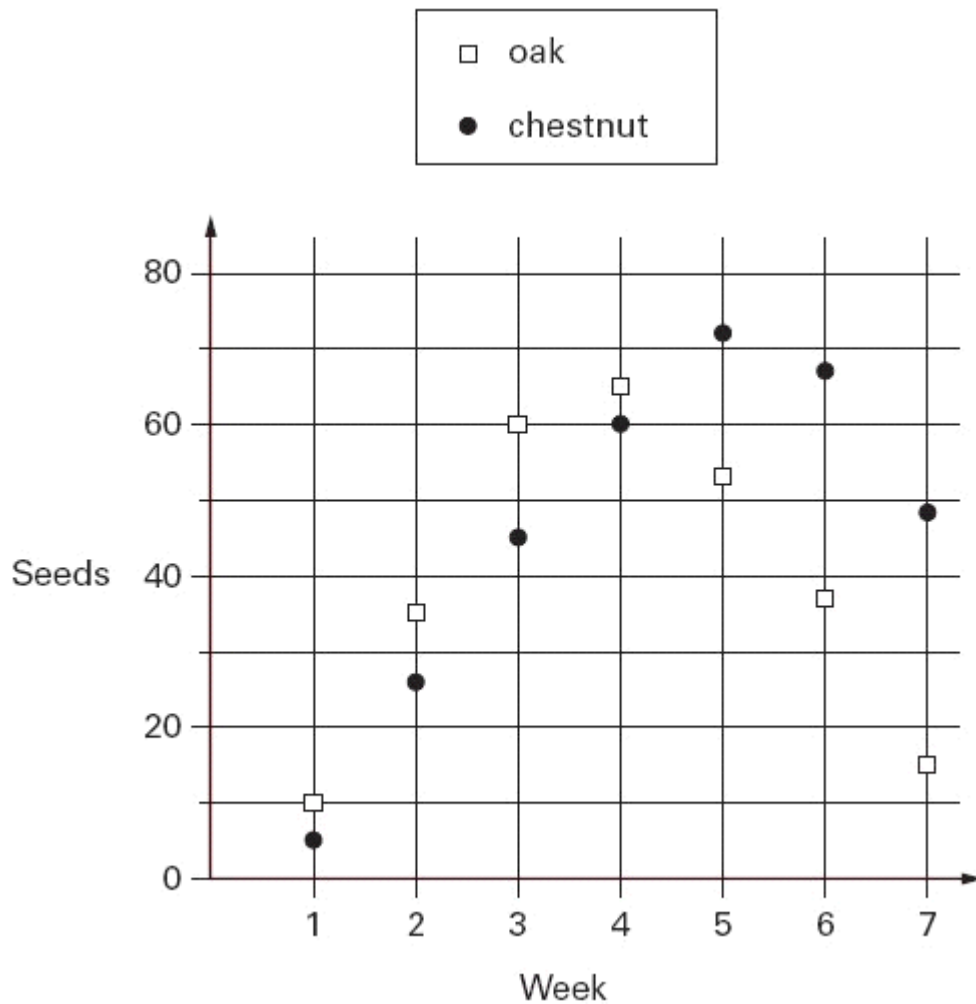
Fill in **all** the missing labels.



2 marks

17. Class 6 count how many seeds they find under two trees.

They show the data in a graph.



How many seeds did they find in week 3 **altogether**?



seeds

1 mark

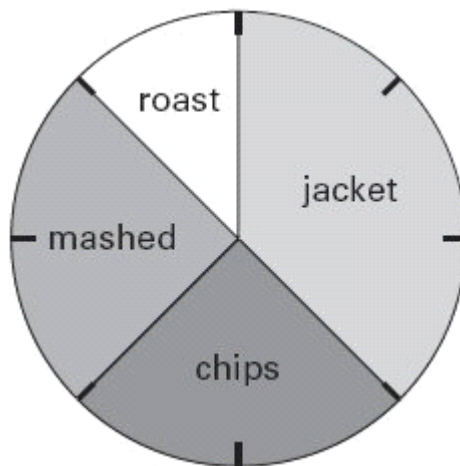
In **how many weeks** did they find more than 40 **chestnut** seeds?



weeks

1 mark

18. This pie chart shows how the children in Class 6 best like their potatoes cooked.



32 children took part in the survey.

Look at the four statements below.

For each statement put a tick (✓) if it is **correct**.

Put a cross (✗) if it is **not correct**.



10 children like chips best.

☐

25% of the children like mashed potatoes best.

☐

$\frac{1}{5}$ of the children like roast potatoes best.

☐

12 children like jacket potatoes best.

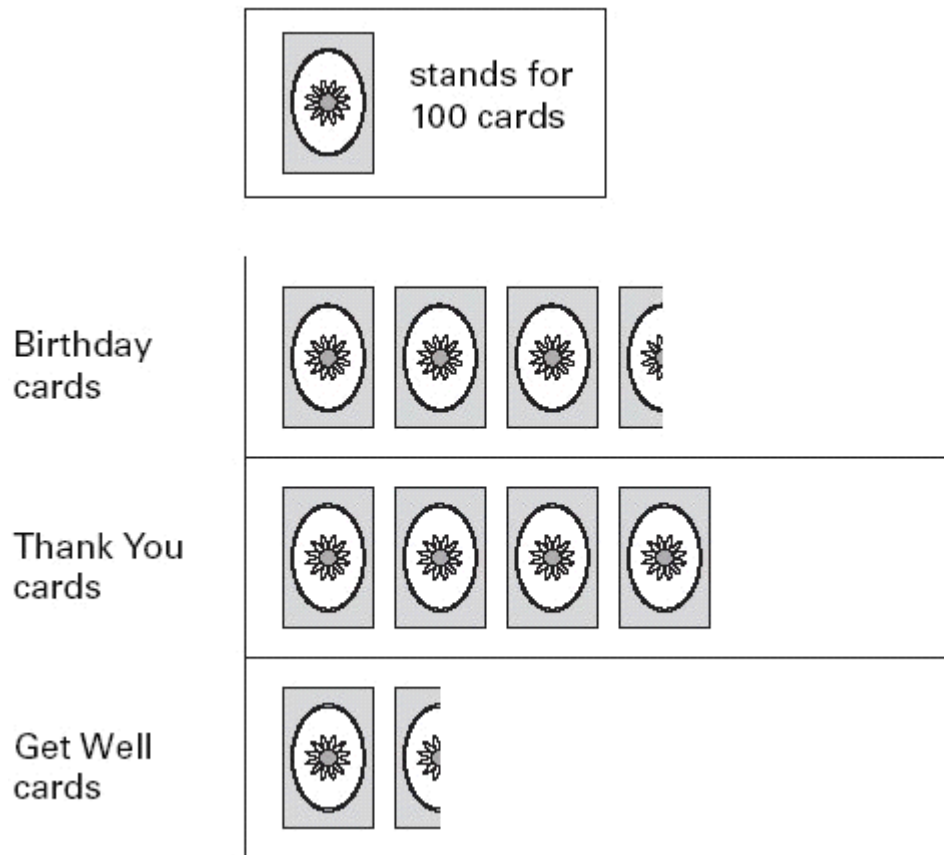
☐

2 marks


19. A shop sells different kinds of greeting cards.



This pictogram shows how many they sold in a week.




Estimate how many Birthday cards were sold.



1 mark

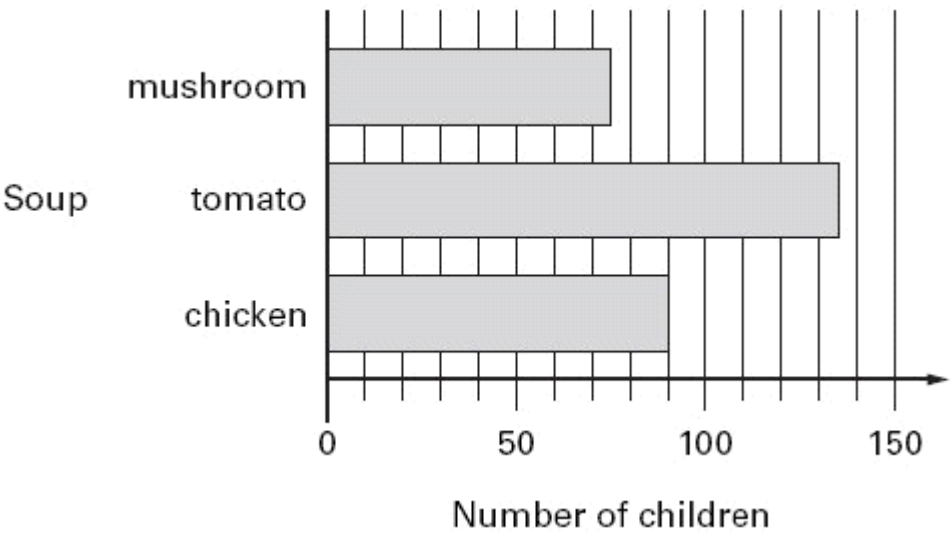
Estimate how many more Thank You cards than Get Well cards were sold.




1 mark

20. All the children at Park School chose their favourite soup.

The graph shows the results.



How many **more** children chose **chicken** soup than **mushroom** soup?



1 mark

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.



.....

.....

.....

1 mark

- 21.** On Monday all the children at Grange School each play one sport.
They choose either hockey or rounders.



There are **103** children altogether in the school.

27 girls choose hockey.

Write all this information in the table.
Then complete the table.



	hockey	rounders	Total
boys	22		
girls			53
Total			

2 marks

22.




These are the prices of sandwiches, drinks and fruit.

Sandwiches		Drinks		Fruit	
cheese	£1.45	milk	55p	apple	15p
tuna	£1.70	cola	45p	pear	20p
salad	£1.20	juice	65p	melon	25p

Shereen buys a **tuna** sandwich, **milk** and a **pear**.


How much does she pay?



1 mark

Mike has 80p to spend on a **fruit** and a **drink**.

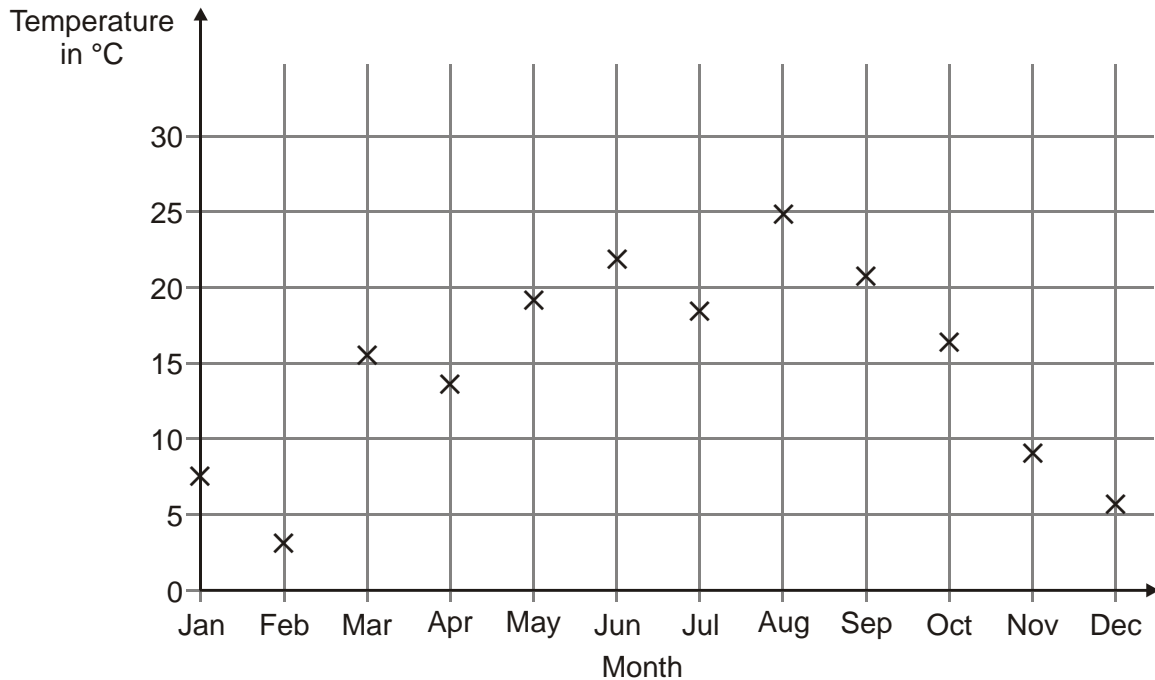
What **two** things can he buy for exactly **80p**?


 and

1 mark

23. Abbie takes the temperature outside at midday on the first day of each month.

The graph shows her results from January to December.



How many months on the graph show a temperature between **10°C** and **20°C**?



1 mark

Find the difference in temperature shown on the graph between **July** and **August**.



1 mark

24. Here is a sorting diagram for numbers.

Write a number **less than 100** in each space.



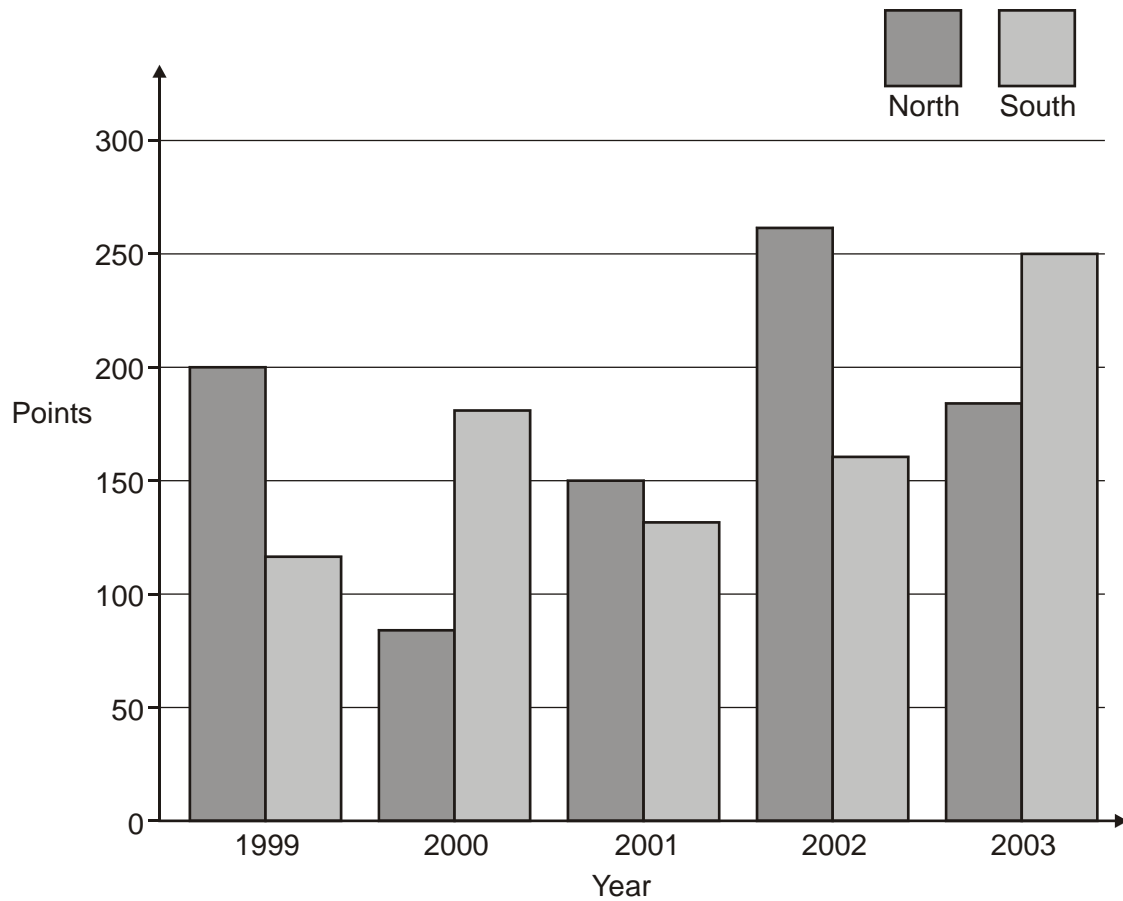
	even	not even
a square number		
not a square number		

2 marks


25. A school has a quiz each year.

There are two teams.

Here are their results.




In which year did **North beat South** by 100 points?



1 mark

In which year did **South beat North** by the greatest amount?




1 mark

26. This table shows how many journeys a taxi driver made on five days and how much money he collected.

	number of journeys	money collected
Monday	23	£85
Tuesday	36	£112
Wednesday	18	£69
Thursday	31	£124
Friday	35	£109


How much money did he collect on the day that he made the most journeys?



£

1 mark

How much more money did he collect on Monday than on Wednesday?



£


1 mark

27. Some children ran in two races on sports day.

Here are their times.


	100m race	800m race
Elise	15.9 seconds	3 minutes 02 seconds
Jake	19.7 seconds	2 minutes 58 seconds
Teri	16.8 seconds	3 minutes 01 seconds
Neil	17.1 seconds	2 minutes 59 seconds
Barry	18.4 seconds	2 minutes 57 seconds

Who finished the 100m race in **second** place?



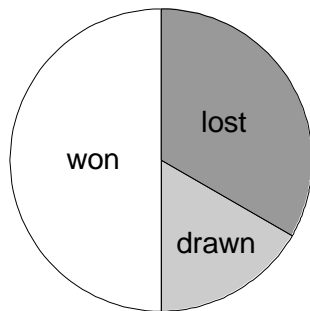
1 mark

In the 800m race, how many seconds did Barry finish ahead of Elise?

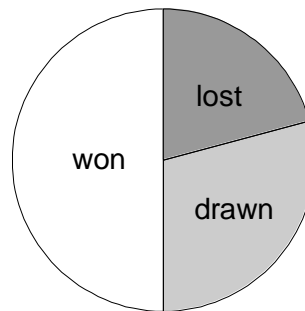


1 mark

28. The pie charts show the results of a school's netball and football matches.



Netball




Football

The netball team played **30** games.

The football team played **24** games.

Estimate the percentage of games that the **netball team lost**.



1 mark

David says,

‘The two teams won the same number of games’.

Is he correct?

Circle Yes or No.



Yes / No

Explain how you know.



.....

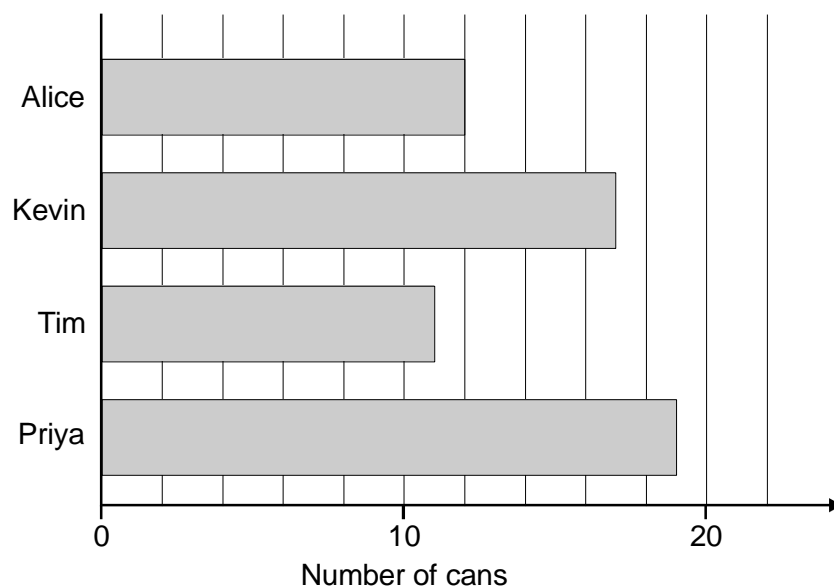
.....

.....

1 mark

29. 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?



1 mark

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

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



1 mark

30. Here is a diagram for sorting numbers.

Write **one number** in each white section of the diagram.



	less than 1000	1000 or more
multiples of 20		
not multiples of 20		

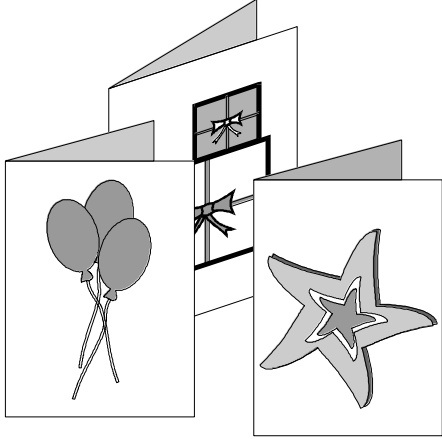
2 marks

31. A shop sells greetings cards.

Each card has a price code on it.

These are the codes.


code	price
AA	75p
BB	£1.15
CC	£1.55
DD	£1.70
EE	£1.99



Tina buys two cards.

One card has code **AA** on it.
The other card has code **DD** on it.

How much does Tina pay?

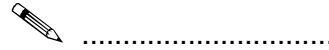


1 mark

Omar buys a card. He pays with a £2 coin.

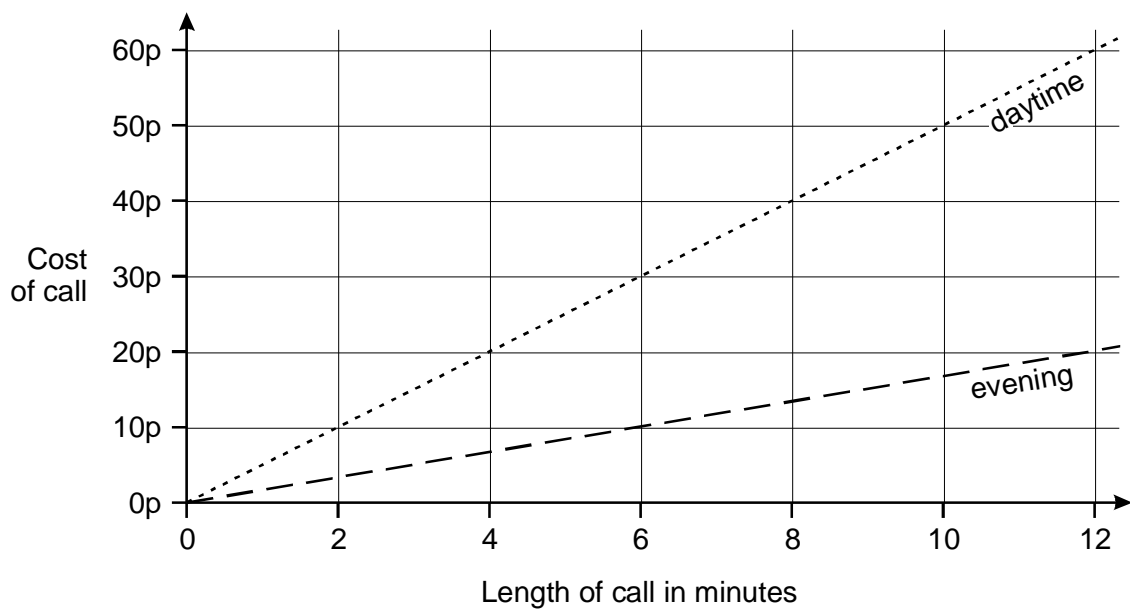
He gets 45p change.

What is the **code** on his card?




1 mark

32. This graph shows the cost of phone calls in the daytime and in the evening.




How much does it cost to make a **9 minute** call in the **daytime**?



p

1 mark

How much **more** does it cost to make a **6 minute** call in the **daytime** than in the **evening**?

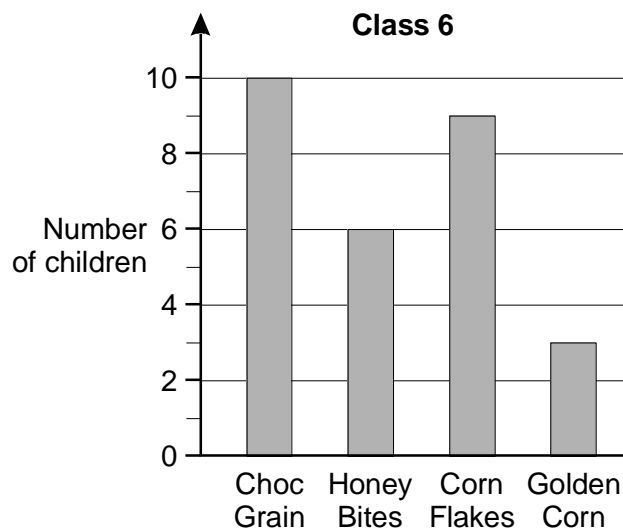


p


1 mark

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

These are the results for Class 6

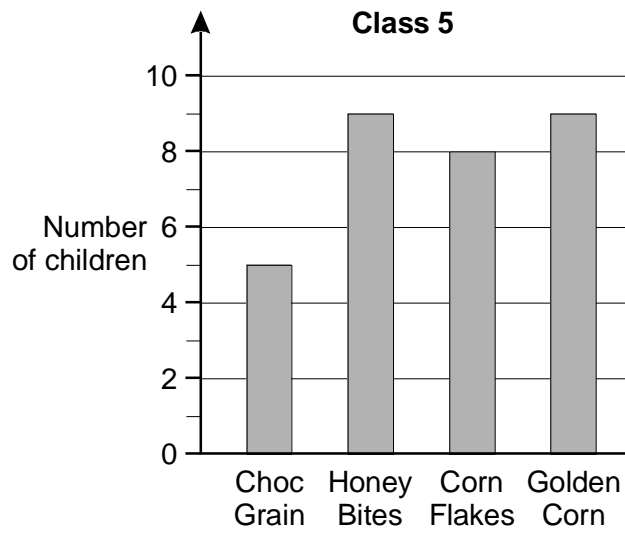


How many **more** children in Class 6 prefer **Choc Grain** than **Golden Corn**?




1 mark

These are the results for Class 5

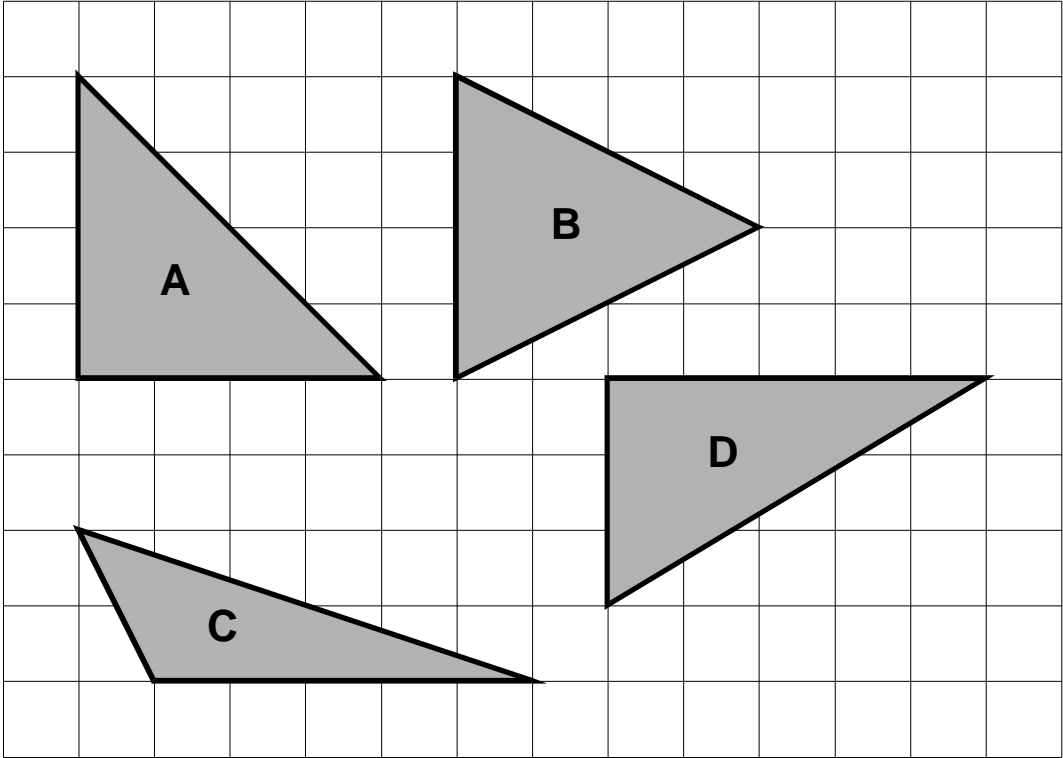


How many children in **both** classes like **Honey Bites** best?




1 mark

34. Here are four triangles drawn on a square grid.



Write the letter for each triangle in the correct region of the sorting diagram.

One has been done for you.



	has a right angle	has an obtuse angle	has 3 acute angles
is isosceles	A		
is not isosceles			

2 marks


35.



The table shows the cost of coach tickets to different cities.


		Hull	York	Leeds
Adult	single	£12.50	£15.60	£10.25
	return	£23.75	£28.50	£19.30
Child	single	£8.50	£10.80	£8.25
	return	£14.90	£17.90	£14.75

What is the total cost for a **return** journey to York for one adult and two children?

 £

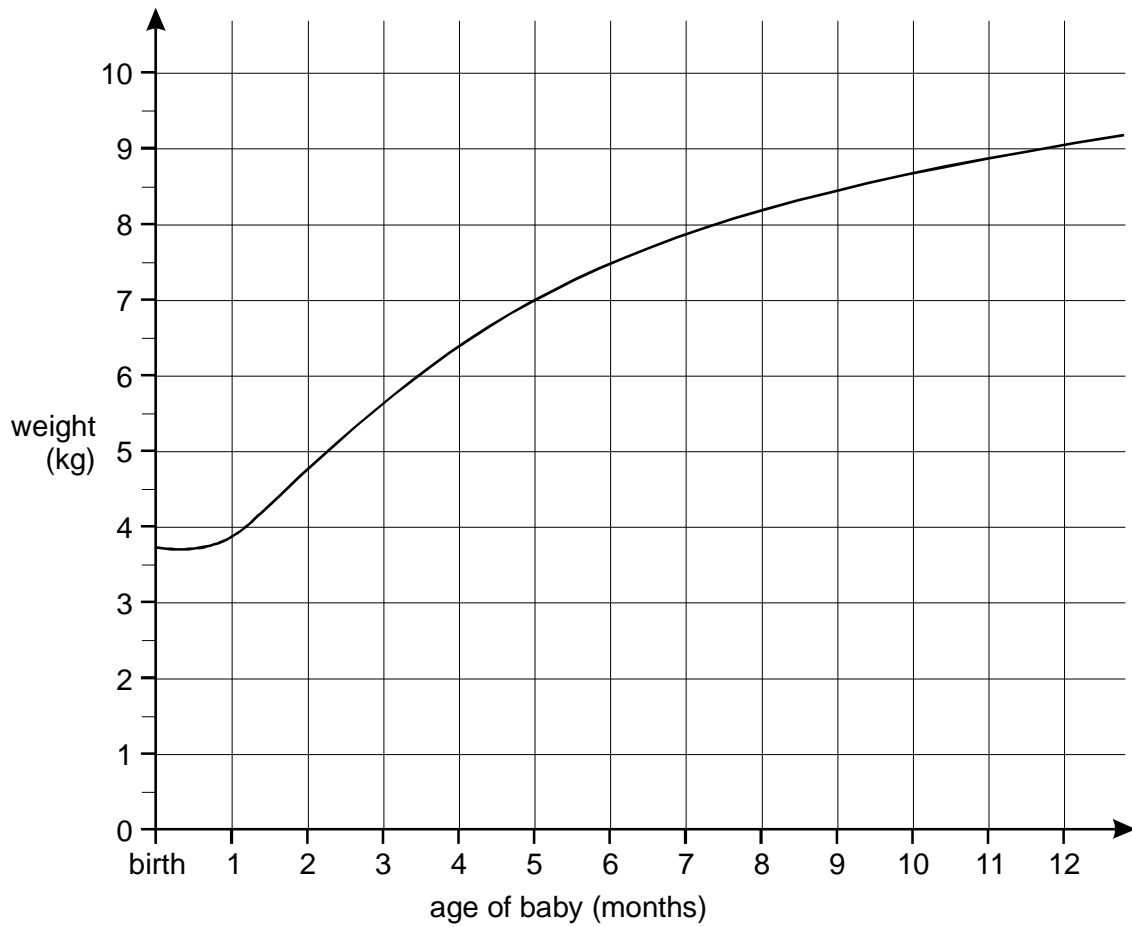
1 mark

How much **more** does it cost for two adults to make a **single** journey to Hull than to Leeds?


 £

1 mark

36. This graph shows how the weight of a baby changed over twelve months.




From the graph, what was the weight of the baby at **10 months**?

 kg

1 mark

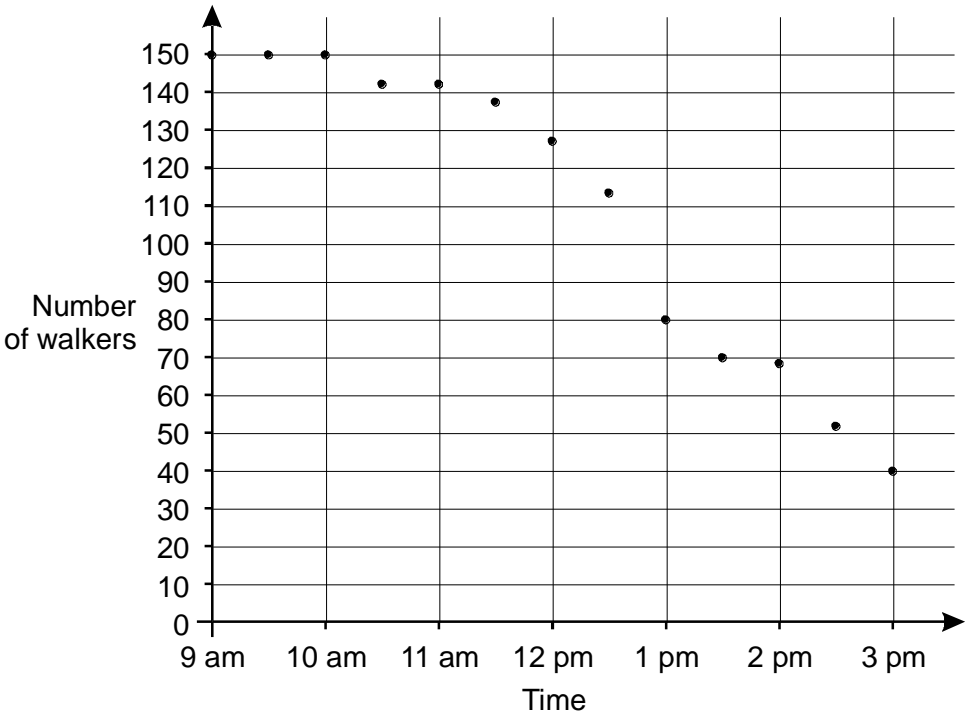
How much **more** did the baby weigh at 5 months than at birth?

 kg

1 mark

37. 150 people take part in a walk.

This chart shows the number of people still walking at different times.




Use the chart to estimate the **time** when **two-thirds of the people** are still on the walk.



1 mark

What **percentage** of the people who started are **still on the walk** at 3pm?



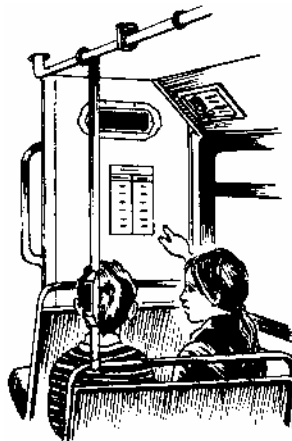
Show
your **method**.
You may get
a mark.

%

2 marks


38. This table shows the increase in bus fares.

Bus Fares	
old fare	new fare
42p	48p
52p	57p
60p	72p
75p	85p
90p	£1.05
£1.20	£1.28



Sohan's **new** bus fare is **72p**.

How much has his bus fare gone up?



p

1 mark

Millie says,

'My bus fare has gone up by 10p'.

How much is Millie's new bus fare?

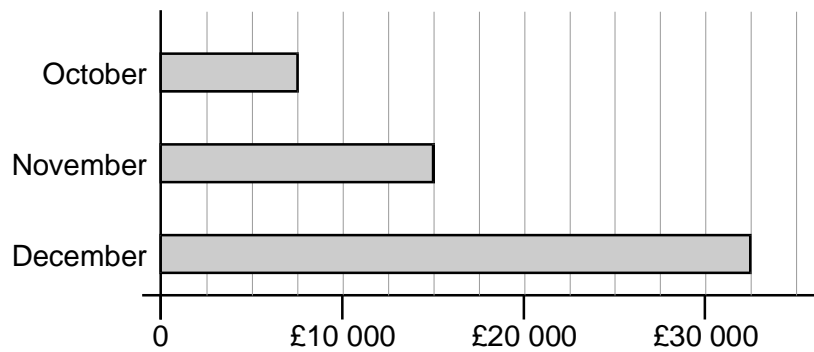


1 mark

39.



This chart shows the amount of money spent in a toy shop in three months.



How much **more** money was spent in the shop in **December** than in **November**?



1 mark

Stepan says,

***'In November there was a 100% increase
on the money spent in October'.***

Is he correct?

Circle Yes or No.



Yes / No

Explain how you can tell from the chart.



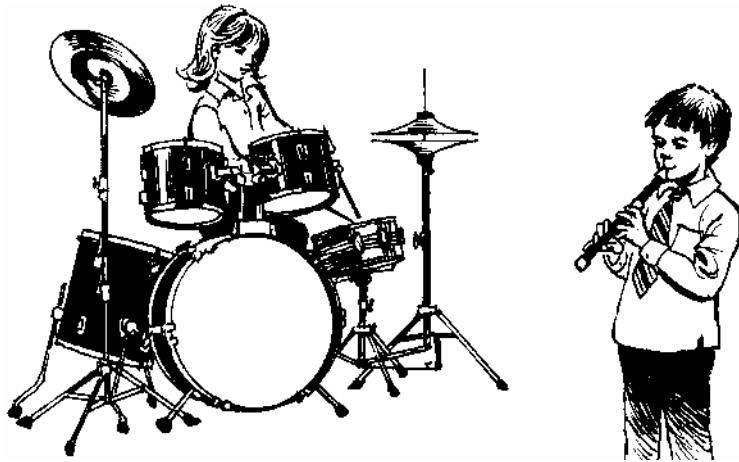
.....

.....

.....

1 mark

40.



This chart shows the musical instruments some children play.


	Lena	John	Rashid	Nicola	Yin
drums	✓	✓		✓	
keyboard			✓		
trumpet	✓				✓
recorder			✓	✓	✓
piano	✓	✓	✓		

Who plays **both recorder and drums**?



1 mark

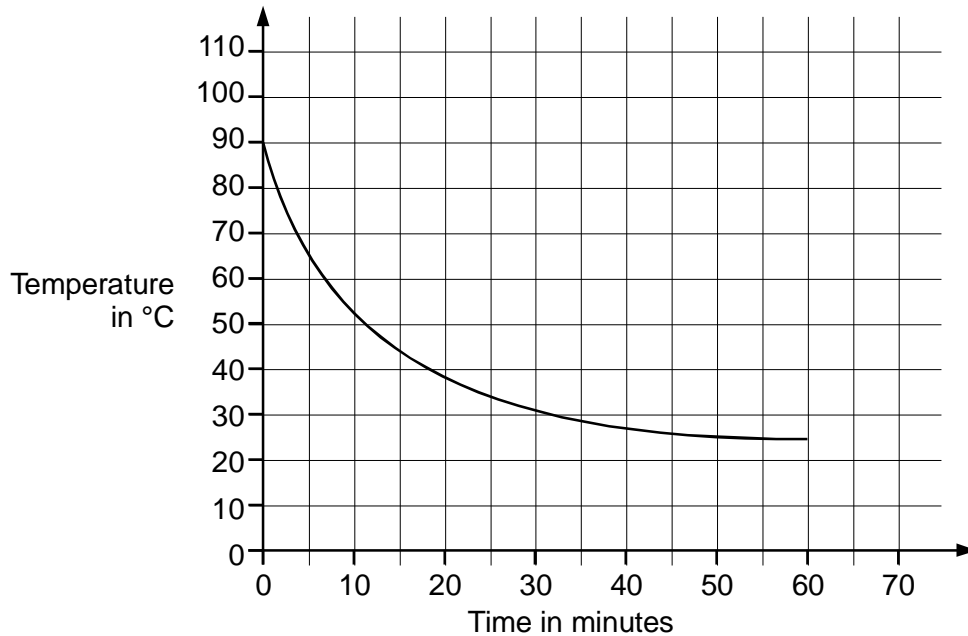
How many children play **more than two** musical instruments?



1 mark

41. A hot liquid is left to cool in a science experiment.

This graph shows how the temperature of the liquid changes as it cools.



Read from the graph **how many minutes** it takes for the temperature to reach **40°C**



minutes

1 mark

Read from the graph **how many minutes** the temperature is **above 60°C**

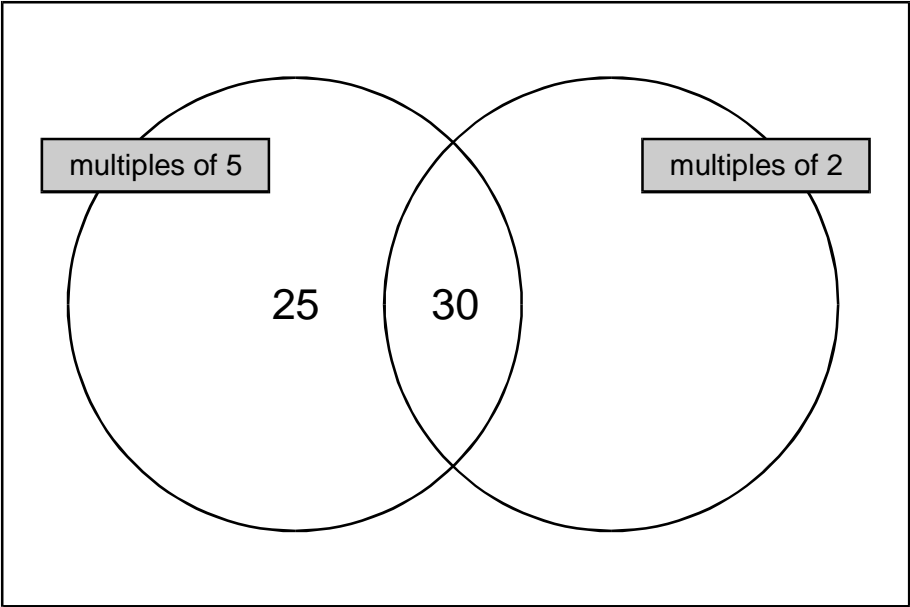


minutes

1 mark

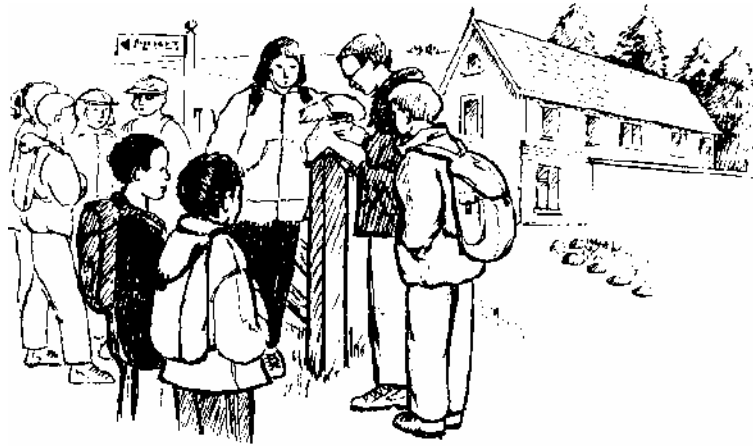
42. Write **each of** these numbers in its correct place on the sorting diagram.

40 8 15



2 marks


43.



This table shows the numbers of children who went walking, sailing or climbing at an outdoor centre.


	May	June	July
walking	25	80	75
sailing	15	42	50
climbing	18	27	23

How many children went **sailing** in **May, June and July** altogether?



1 mark

How many **more** children went **walking** in **June** than **climbing** in **June**?



1 mark

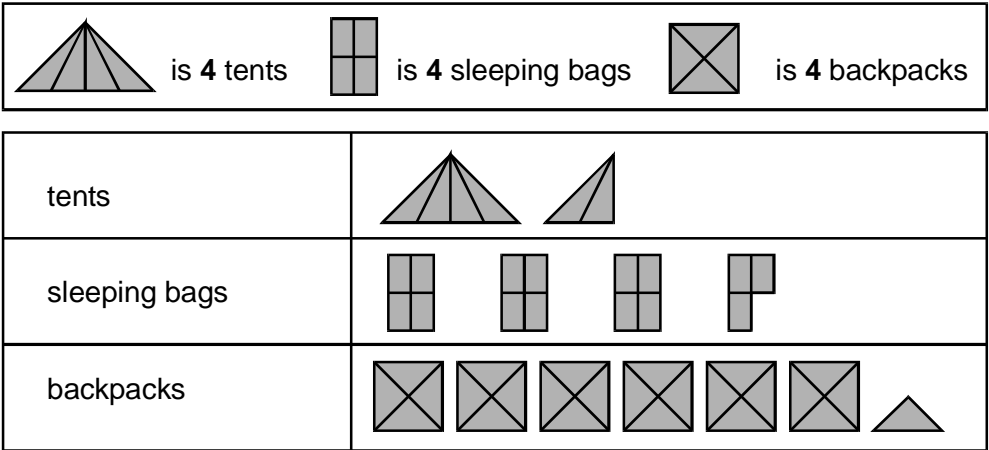
44.



A camping shop sells **tents**, **sleeping bags** and **backpacks**.


This chart shows how many of each they sold in June.

Items sold in June



The shop had **20** sleeping bags at the **beginning of June**.


How many of these sleeping bags did the shop have left at the **end of June**?



1 mark

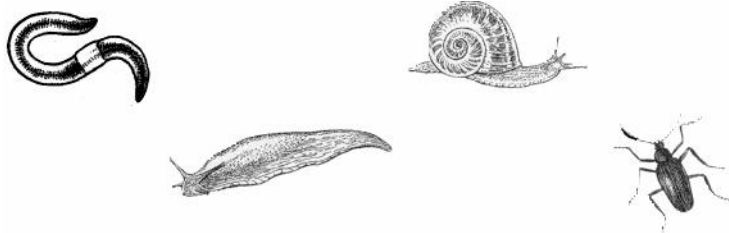
In **July**, the shop sold **three times as many tents** as in June.

How many tents did the shop sell in **July**?

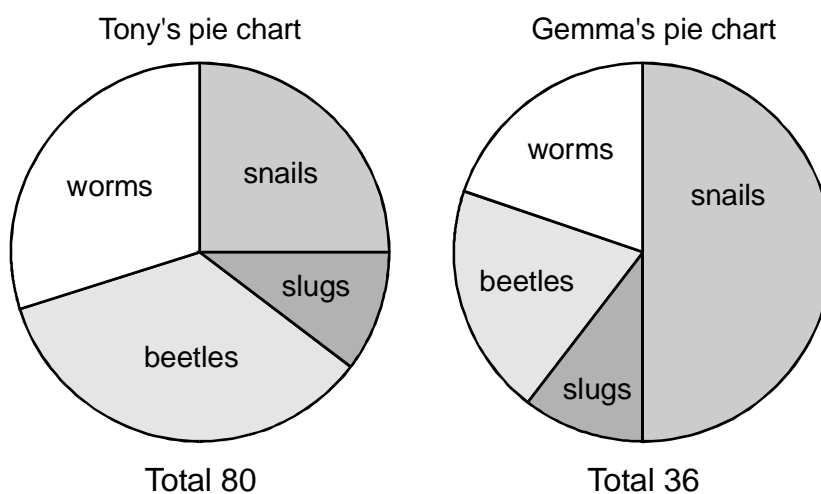


1 mark


45. Tony and Gemma looked for snails, worms, slugs and beetles in their gardens.



They each made a pie chart of what they found.



Estimate the number of **worms** that **Tony** found.



1 mark

Who found more **snails**?

Circle Tony or Gemma.



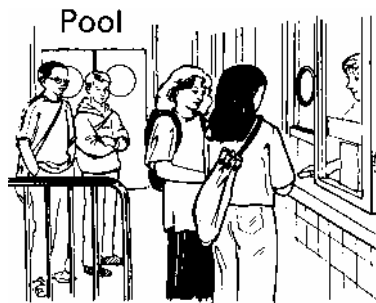
Tony / Gemma

Explain how you know.



1 mark


46.



These are the opening times at a swimming pool.


	opening times		
	am		pm
Monday	Pool closed		
Tuesday			
Wednesday	10:30	to	5:30
Thursday	10:30	to	8:30
Friday	10:30	to	9:00
Saturday	8:00	to	6:00
Sunday	7:00	to	4:00

How many **hours** is the pool open on a **Sunday**?

 hours

1 mark

Which **day** has the **latest** closing time?



1 mark

Habib arrives at the pool at **5:20pm** on **Saturday**.

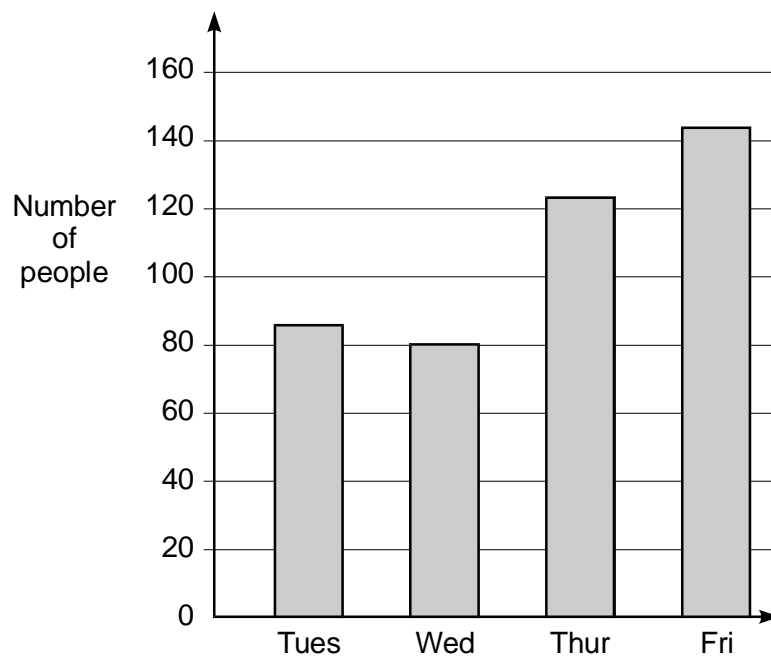
How many **minutes** is it before the pool closes?



minutes

1 mark

47. 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.



1 mark



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

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

 Show your **method**. You may get a mark.

	<div style="border: 1px solid black; padding: 2px; display: inline-block;">£</div>
--	--

2 marks

48. n stands for a number.

Complete this table of values.



n	$5n - 2$
20	<div style="border: 1px solid black; width: 60px; height: 25px; margin: 0 auto;"></div>
<div style="border: 1px solid black; width: 60px; height: 25px; margin: 0 auto;"></div>	38

2 marks


49. This table shows the cost of sending a letter.

Mass	Cost in pence	
	first class	second class
up to 60g	26	20
61g to 100g	39	31
101g to 150g	49	38
151g to 200g	60	45
201g to 250g	70	55

Paul is sending a letter.

It costs **38p second class**.

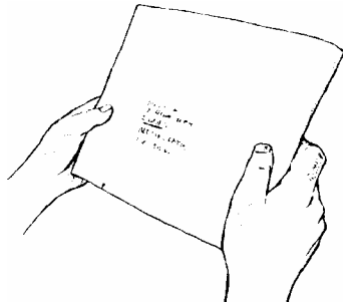
How much would it cost him to send it **first class**?




p

1 mark

Jenny has a letter with a mass of **170g**.



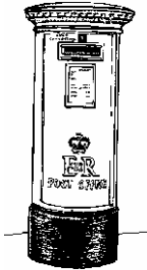
What does it cost to send if first class?




1 mark

50. These are the times letters are collected from a post box.

Monday to Friday	Saturday	Sunday
8am 2pm 6:30pm	11:30am	no collection




What is the **latest** time letters are collected on **Wednesday**?



1 mark

Carla posts a letter at **9 am on Monday**.


How **long** will it be before it is collected?

 **hours**

1 mark

Gareth posts a letter on **Saturday at 3pm**.

When is it collected from the post box?

 day time

1 mark


51. Tom, Amy and Helen want to go on a boat trip.



There are three boats.

Lark	Heron	Kestrel
50 minute trip	70 minute trip	90 minute trip
Tickets £2.75 each	Tickets £3.50 each	Tickets £4.20 each

How much does it cost altogether for **three** people to go on the **Lark**?




£

1 mark

Tom and Amy go on the **Heron**.

They leave at **2:15pm**.


At what **time** do they return?


 pm

1 mark

Helen goes on the **Kestrel** and **gets back at 4:15pm**.

At what **time** did the boat leave?

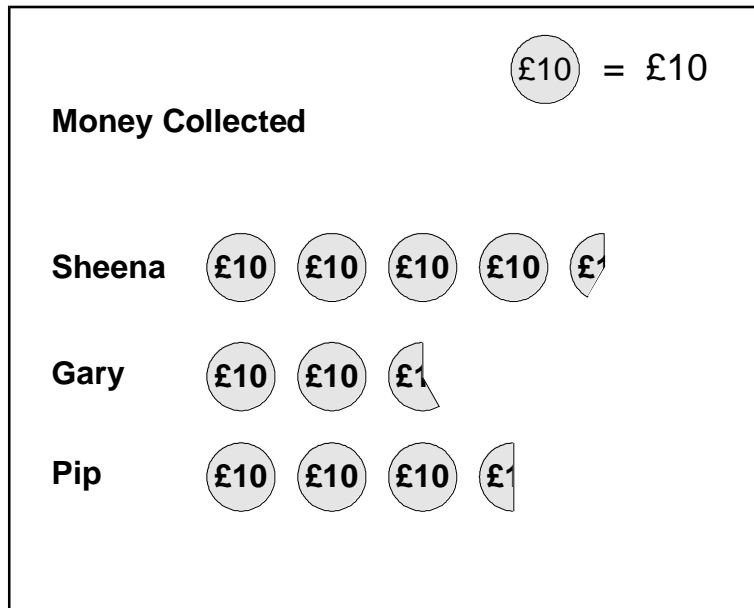

 pm

1 mark


52. Three children do a sponsored silence.



This is a chart of the money they collected.



Estimate how much **Sheena** collected.



1 mark

Together **Gary** and **Pip** collected **more than £60**.

Explain how the **chart** shows this.



.....

.....


.....

1 mark

53. This table shows the distances in **kilometres** between five towns.

	Birmingham	Cardiff	London	Manchester	Newcastle
Birmingham		179	188	127	334
Cardiff	179		269	278	489
London	188	269		298	441
Manchester	127	278	298		212
Newcastle	334	489	441	212	

Use the table to find the distance from **London** to **Manchester**.



km

1 mark

James goes from **Newcastle** to **Birmingham**, and then on to **Cardiff**.

How many **kilometres** does he travel?

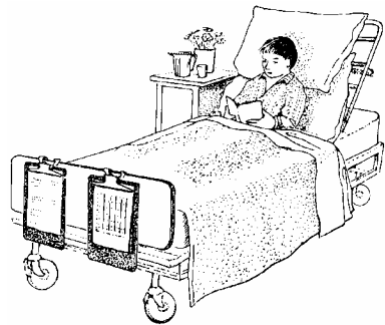


Show
your **method**.
You may get
a mark

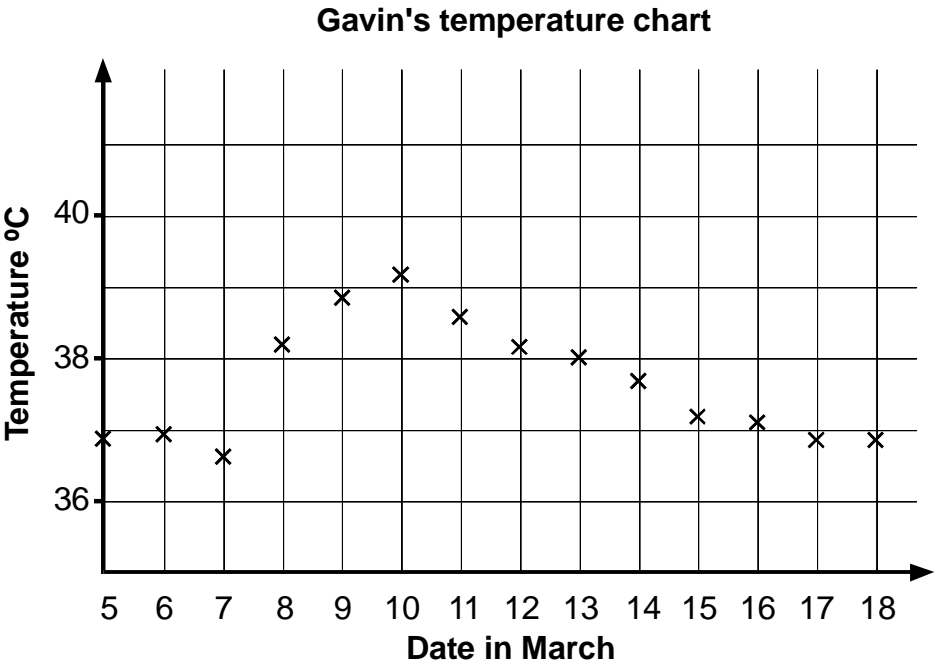
km

2 marks


54. Gavin was ill in March.



This is his temperature chart.




For how many days was his temperature marked as **more than 37°C**?



1 mark


Which **date** showed the largest **change in temperature** from the day before?



1 mark

Estimate Gavin's **highest** temperature shown on the graph.

Give your answer to **1 decimal place**.

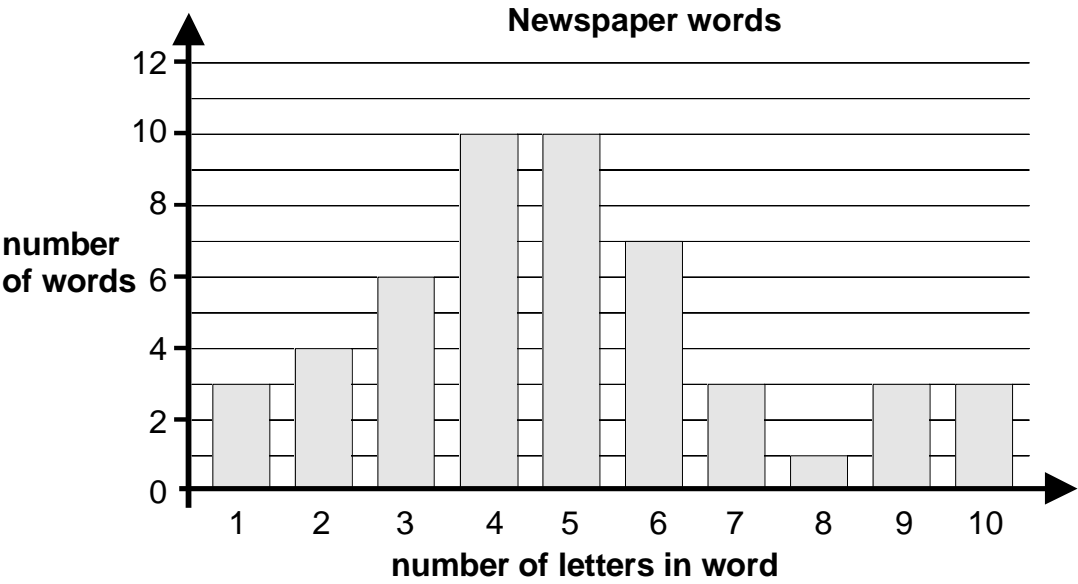
 °C

1 mark

55. Kelly chooses a **section** of a newspaper.

It has **50 words** in it.

She draws a bar chart of the number of letters in each word.



What **fraction** of the 50 words have **more than 6 letters**?



1 mark

Kelly says,

23 of the 50 words have less than 5 letters.

This shows that nearly half of all the words used in the newspaper have less than 5 letters in them.

Explain why she **could be wrong**.



.....

.....

.....

1 mark