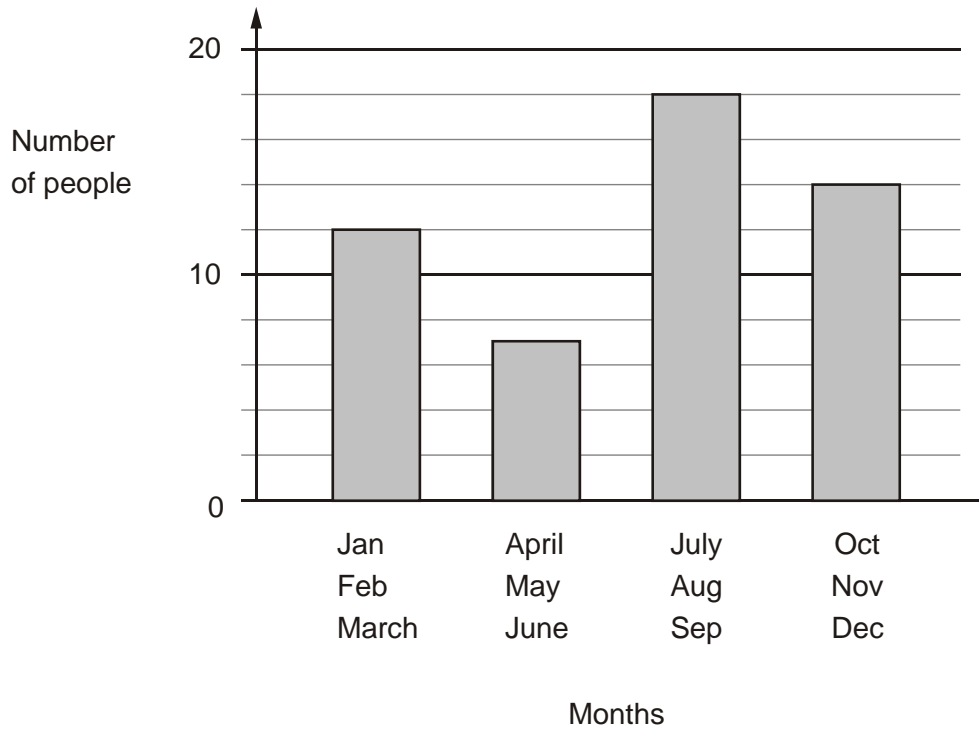


1. Class 6 did a survey of birthday dates.

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.

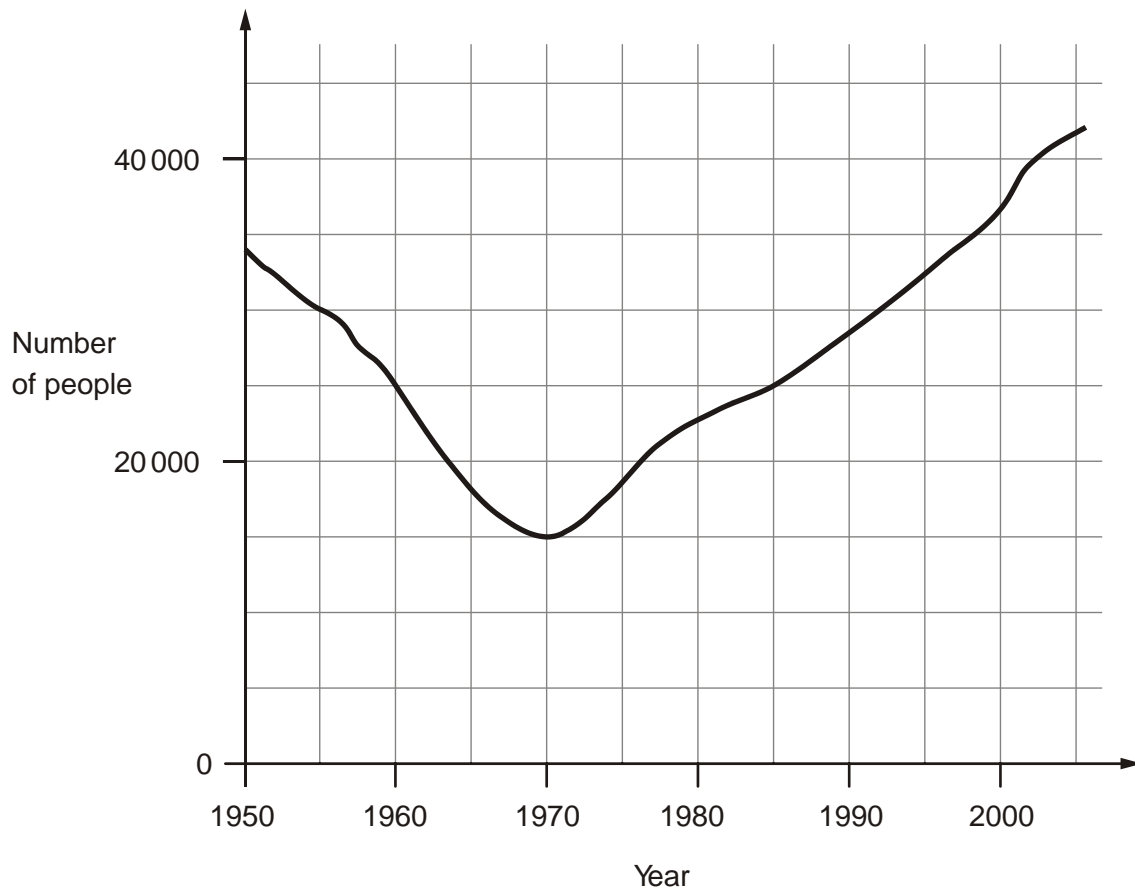
Six people have a birthday in November.

How many people have a birthday in December?



1 mark

2. 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?



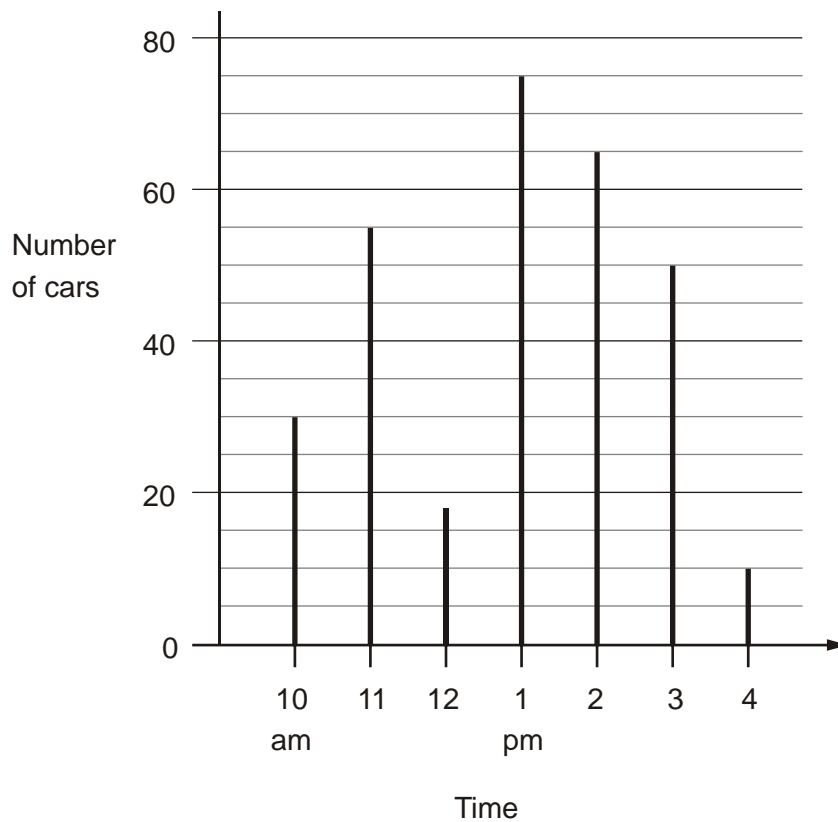
1 mark

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



1 mark

3. 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

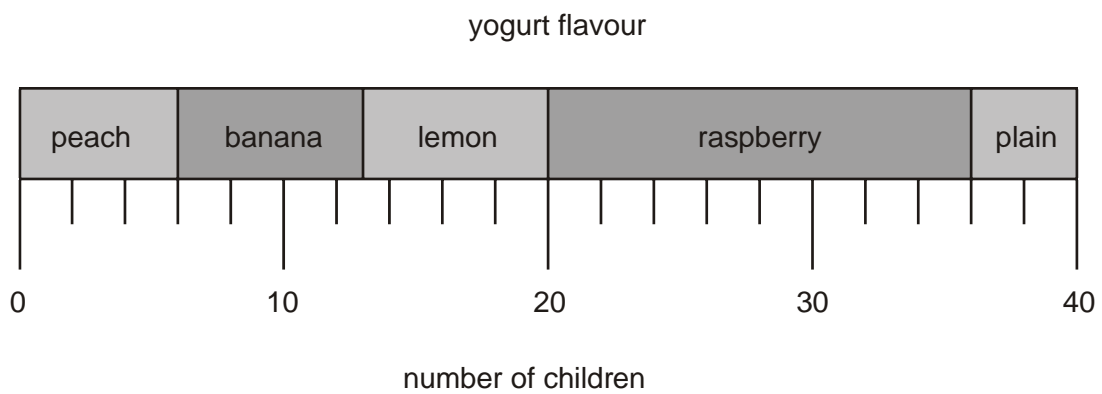
3  
pm

4  
pm

1 mark

4. 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?

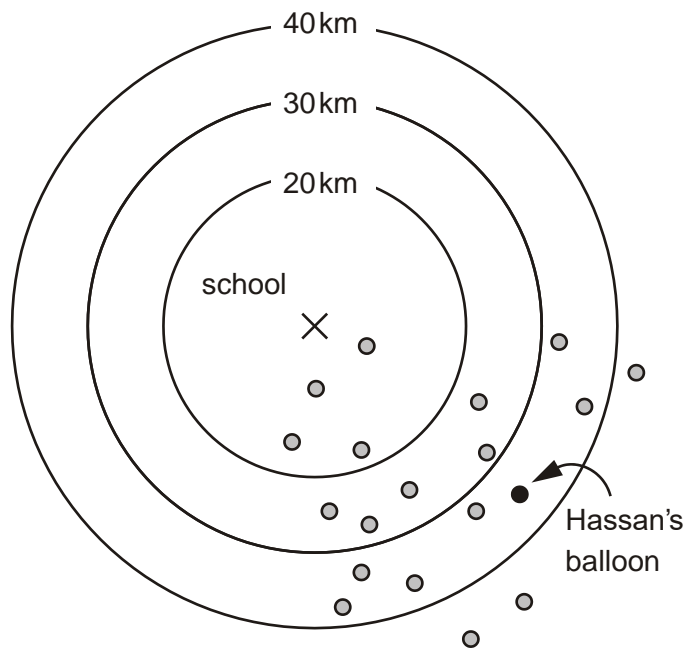



1 mark


5. 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

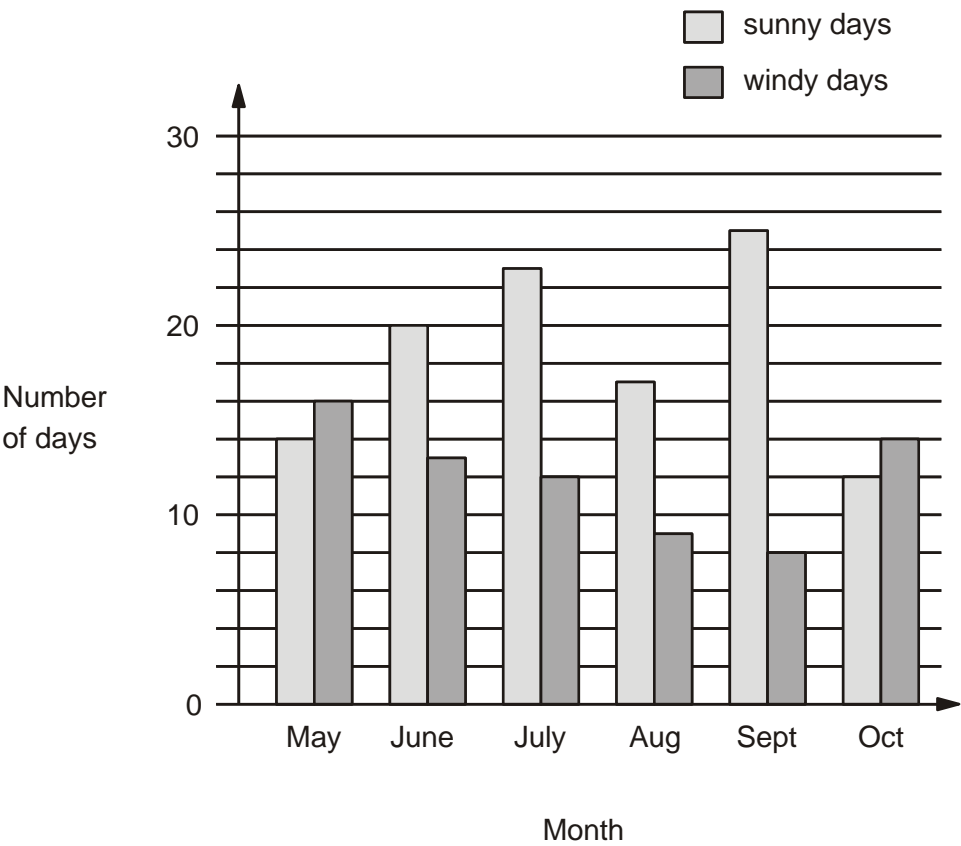
Estimate how far Hassan's balloon travelled.



km

1 mark

6. The chart shows the number of sunny days and the number of windy days in six months.




Which months had more windy days than sunny days?



.....


1 mark

How many months had more than 15 sunny days?

1 mark

How many more sunny days than windy days were there in **June**?


1 mark

7. Some children were asked to choose their favourite animal in the zoo.

This table shows the results.


	Girls	Boys
zebra	9	3
lion	4	9
giraffe	7	4
monkey	8	7
elephant	6	5

How many more girls than boys chose giraffes?


1 mark

How many more boys chose lions than elephants?

1 mark

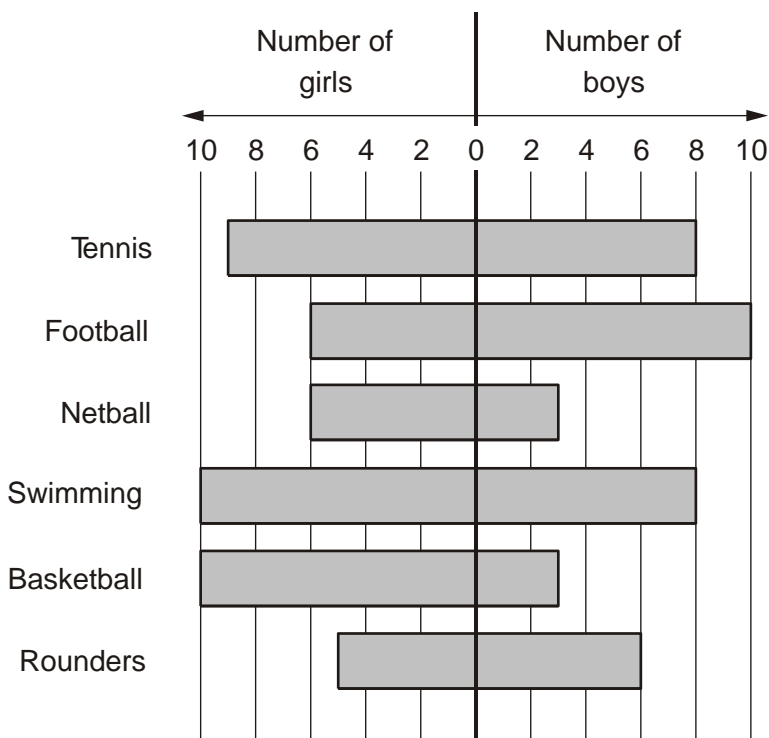
Which animal was chosen by the greatest number of children?

 .....

1 mark

8. Some children each chose their favourite sport.

This chart shows the results.




Which sport was chosen by the most children?

 .....

1 mark

How many **more** girls than boys chose basketball?



1 mark



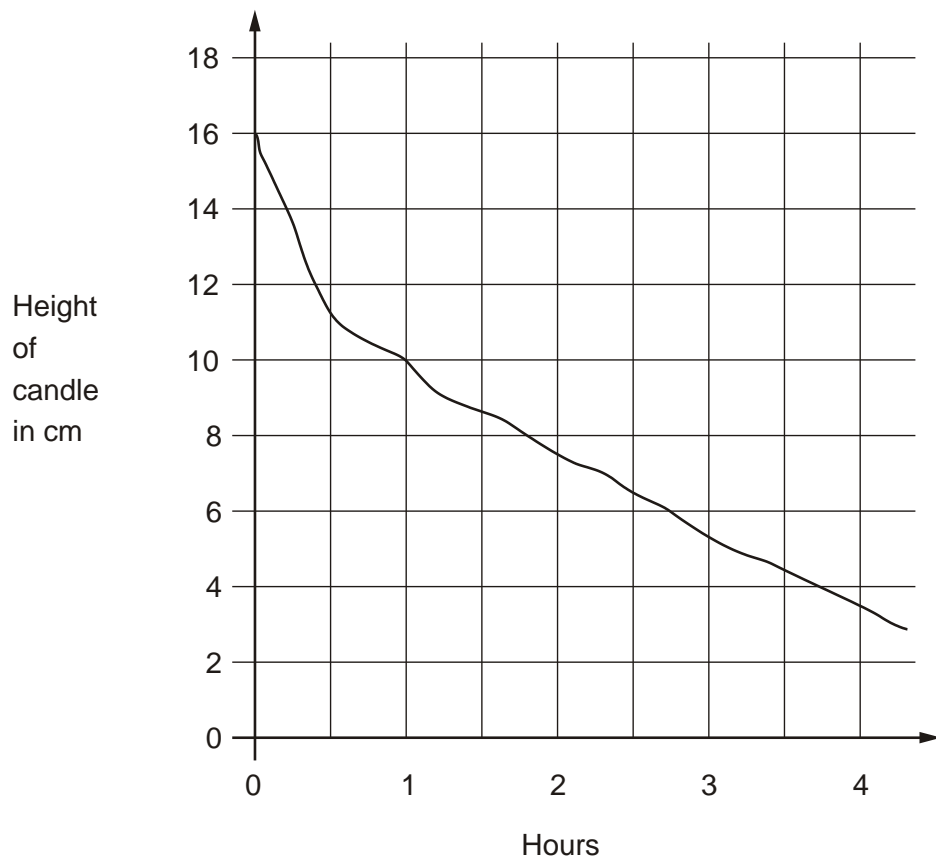
Write **all** the sports that were chosen by more boys than girls.



.....

1 mark

9. This graph shows the height of a candle as it burns.



Look at the graph.


What is the height of the candle after 2 hours?



cm

1 mark

How long does the candle take to burn down from 16cm to 4cm?

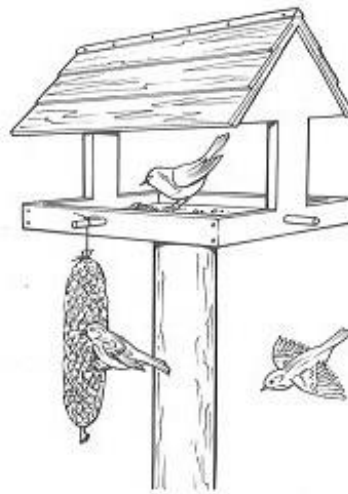
  

1 mark

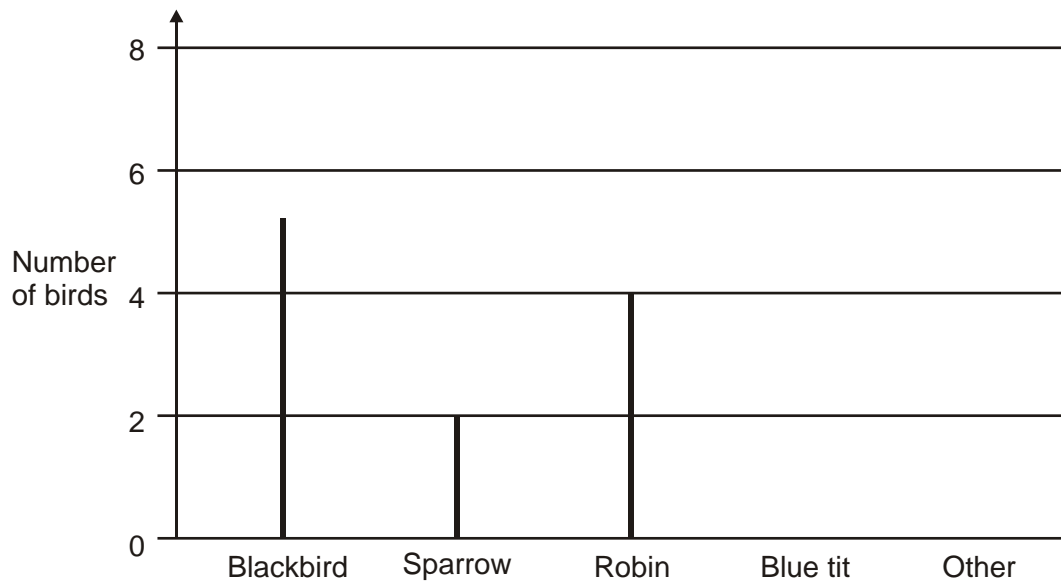
**10.** Rosie collects data about birds visiting a bird table.

Here are her results.

Blackbird	
Sparrow	
Robin	
Blue tit	
Other	



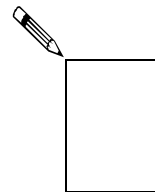
Draw **two** more lines to complete the graph.



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?



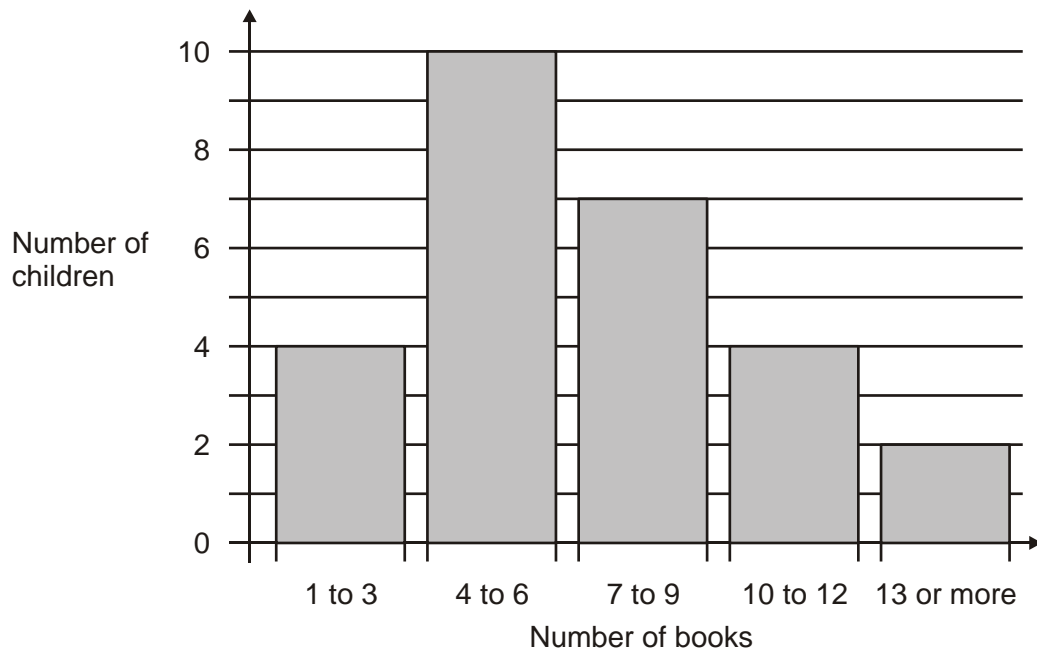
1 mark

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

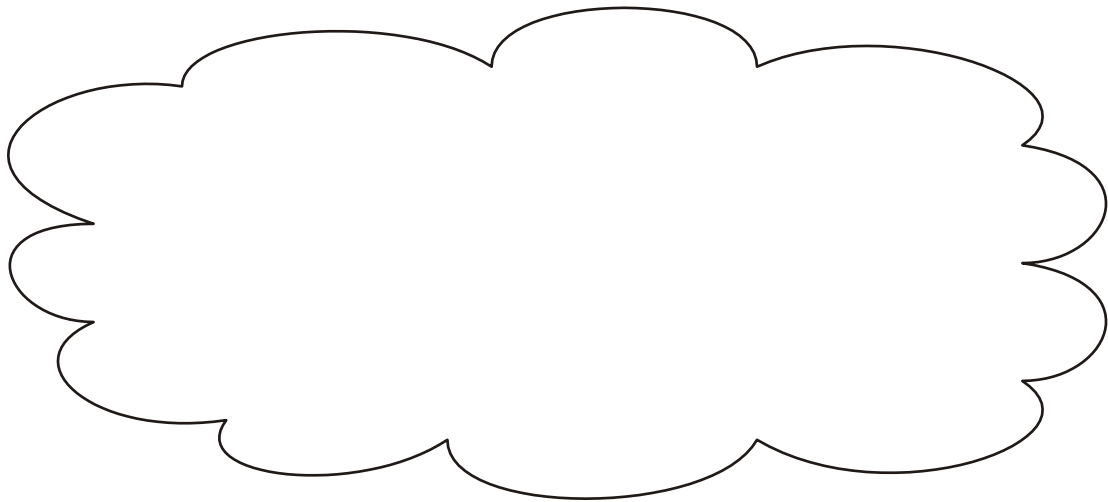
7 children read 4 books.

1 child read 5 books.

Lin says,

***‘That means 2 children read 6 books’.***

Explain how she can work this out from the chart.

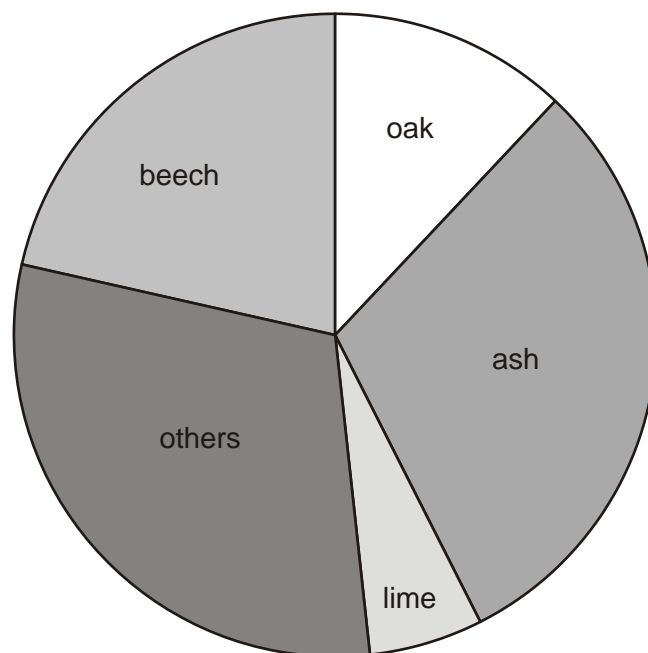


1 mark

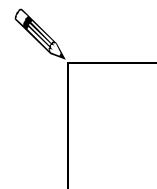
13. Class 6 did a survey of the number of trees in a country park.



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.

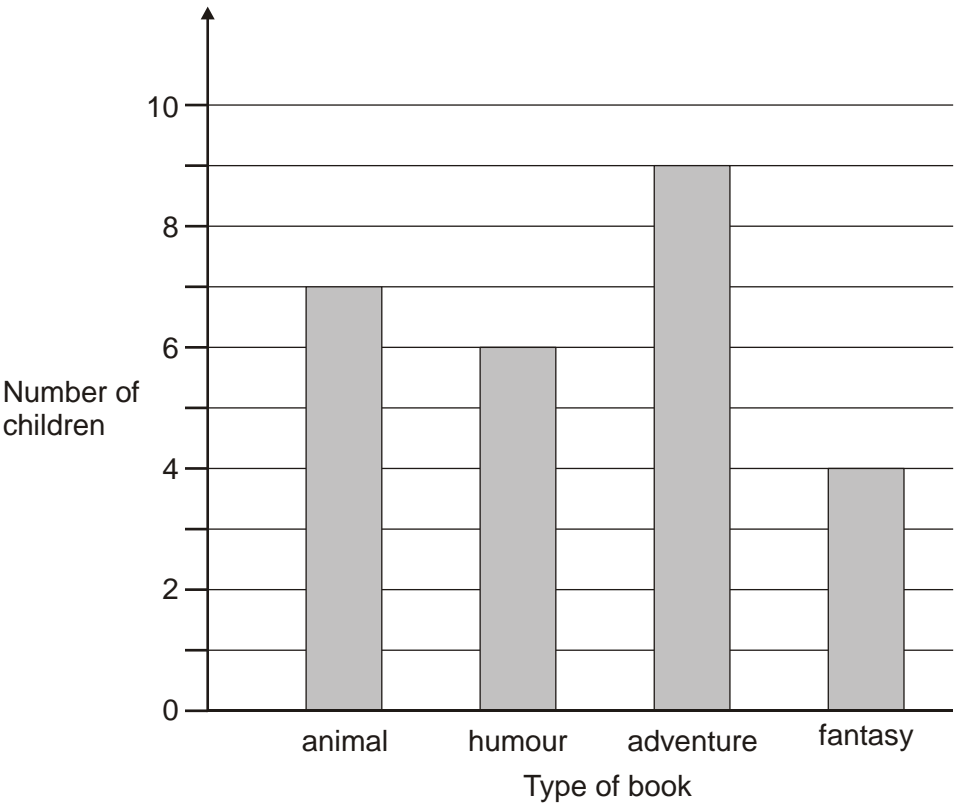
Use the pie chart to estimate the **number** of **beech** trees they counted.




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. Here is a sorting diagram with four sections, **A**, **B**, **C** and **D**.

	multiple of 10	not a multiple of 10
multiple of 20	<b>A</b>	<b>B</b>
not a multiple of 20	<b>C</b>	<b>D</b>

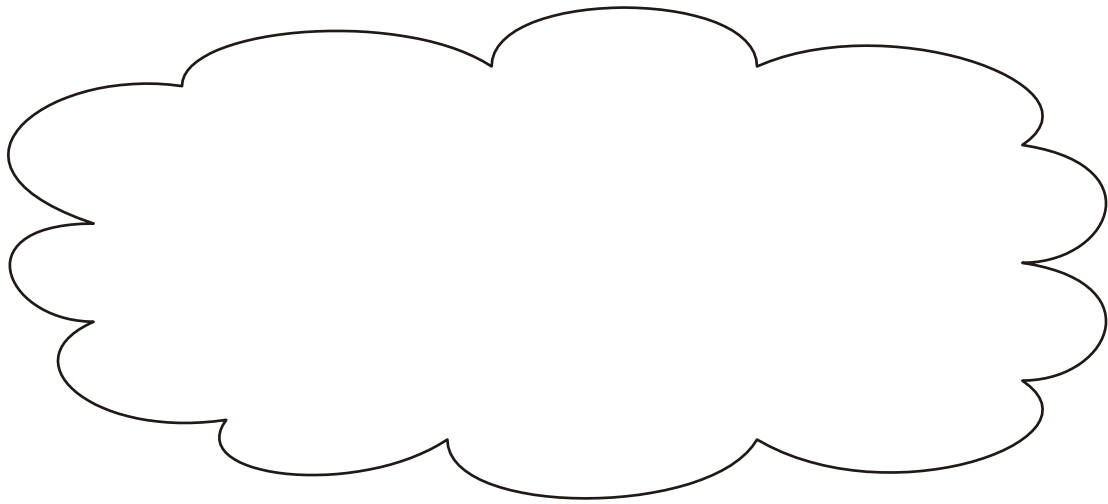
Write a number that could go in section **C**.

1 mark

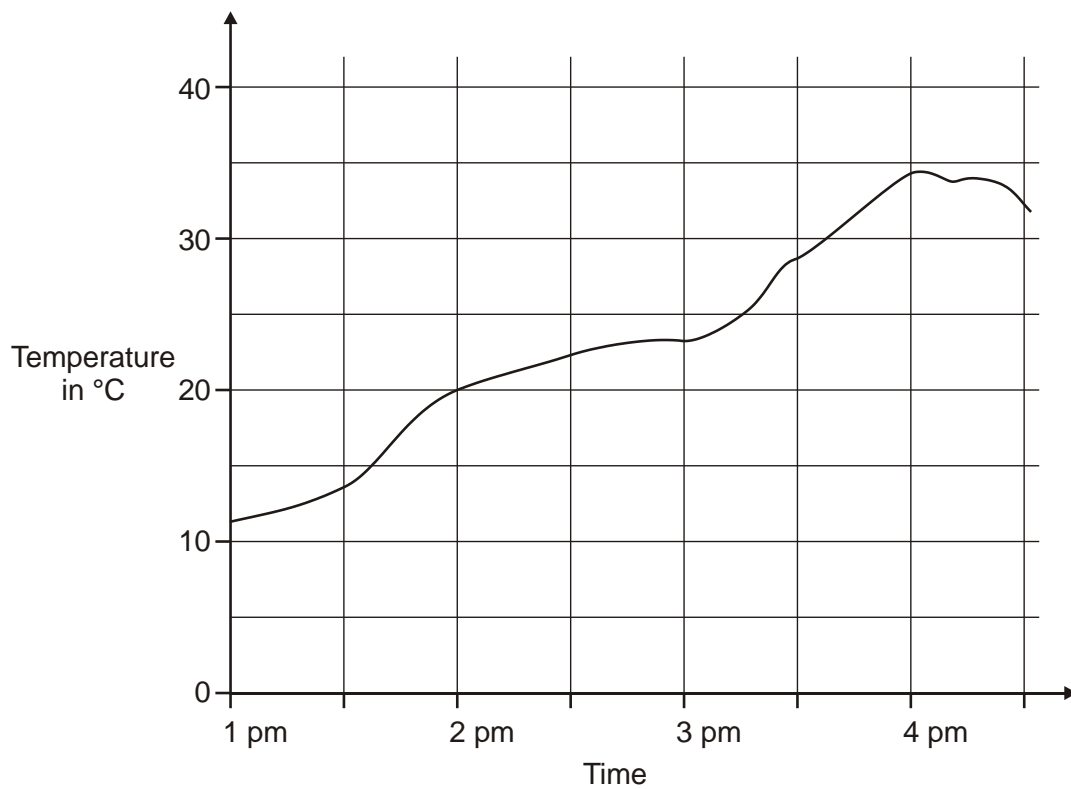
Section **B** can never have any numbers in it.

Explain why.




1 mark

**16.** 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

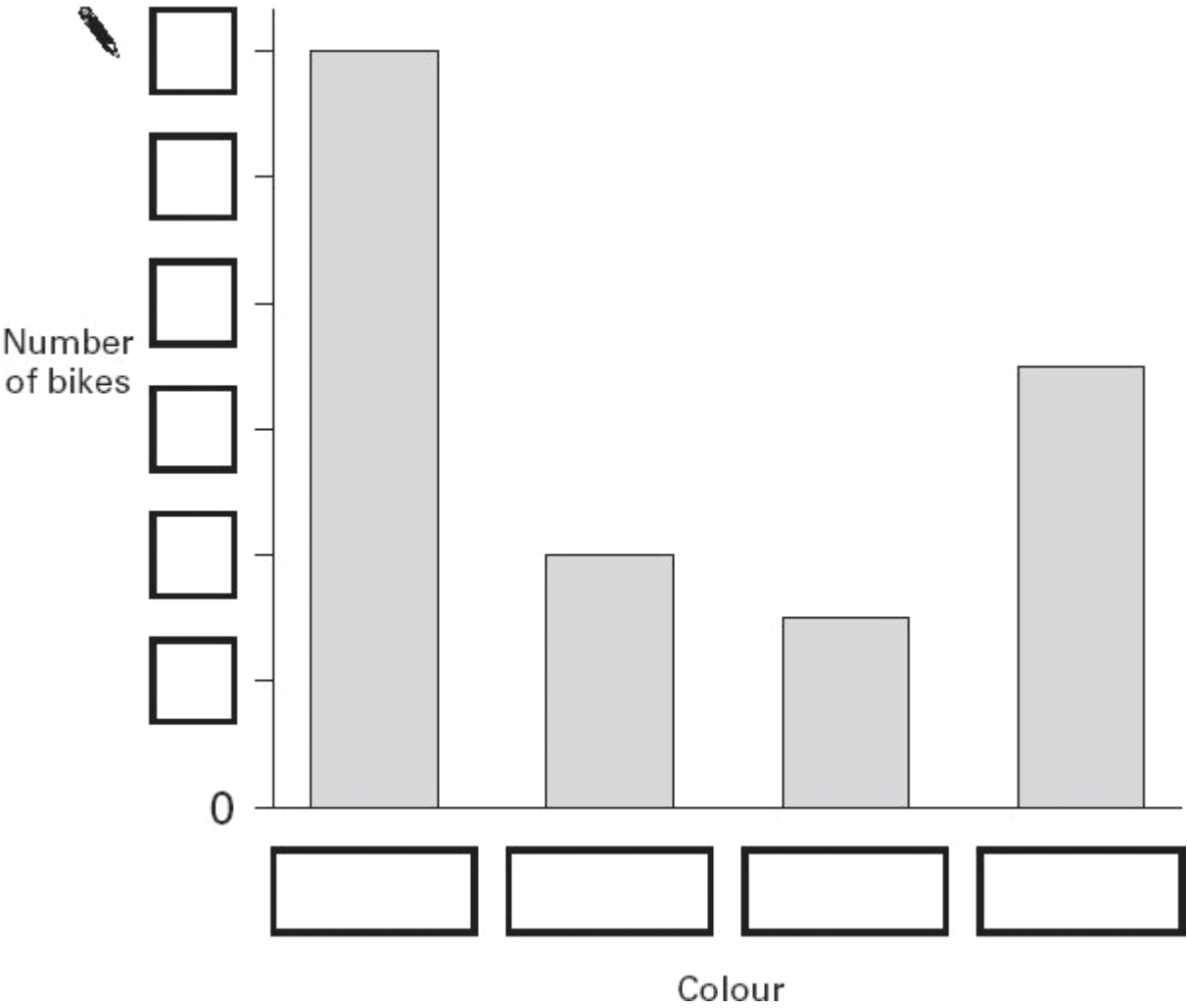
17. Robbie collected information about the colours of some bikes.

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.

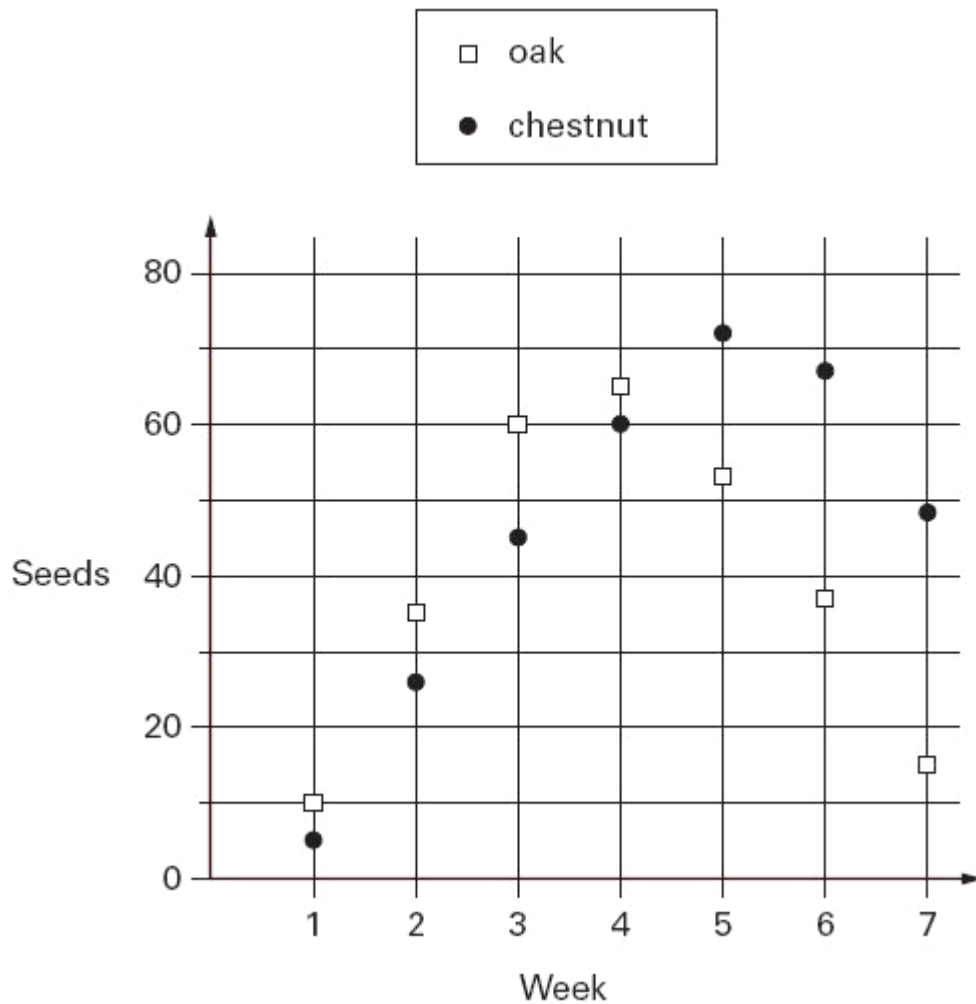
Fill in **all** the missing labels.



2 marks

18. 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

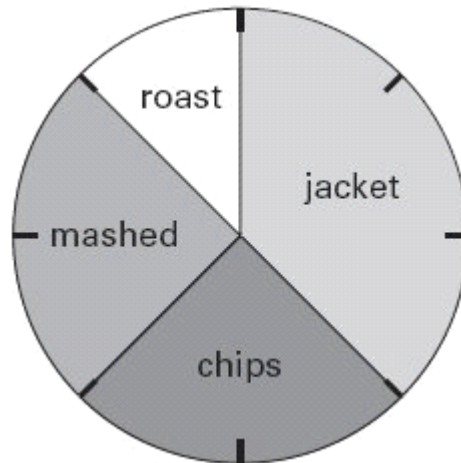
In **how many weeks** did they find more than 40 **chestnut** seeds?



weeks

1 mark

19. 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.

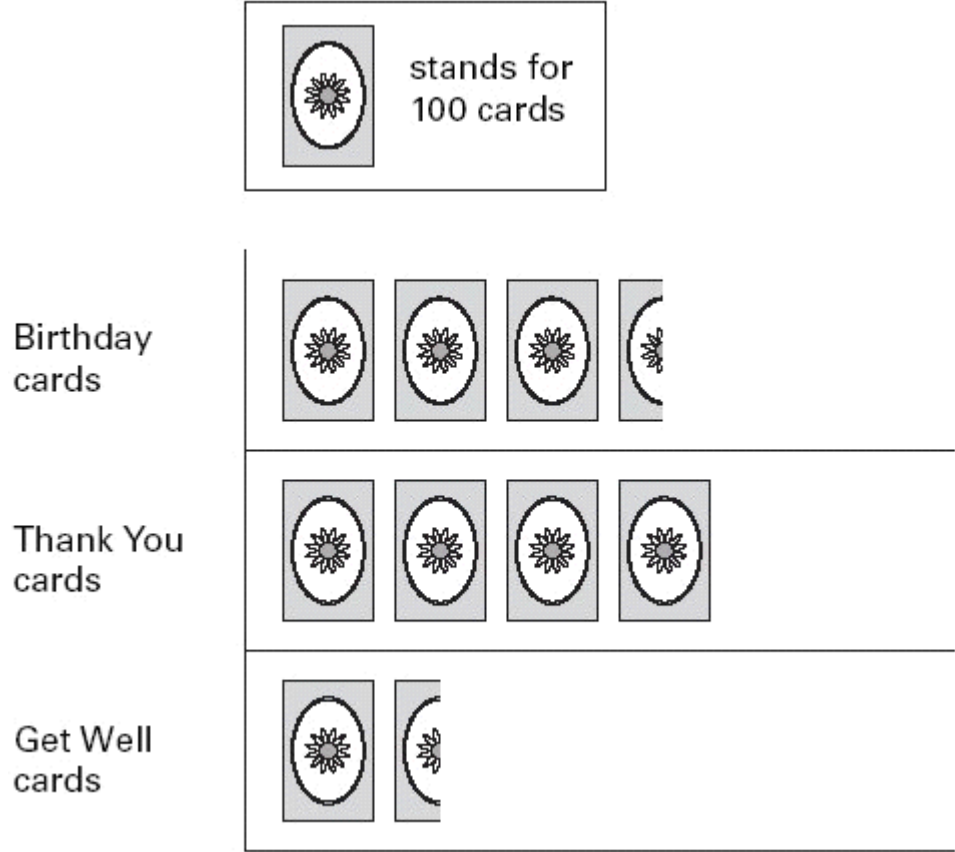
☐

2 marks


20. 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

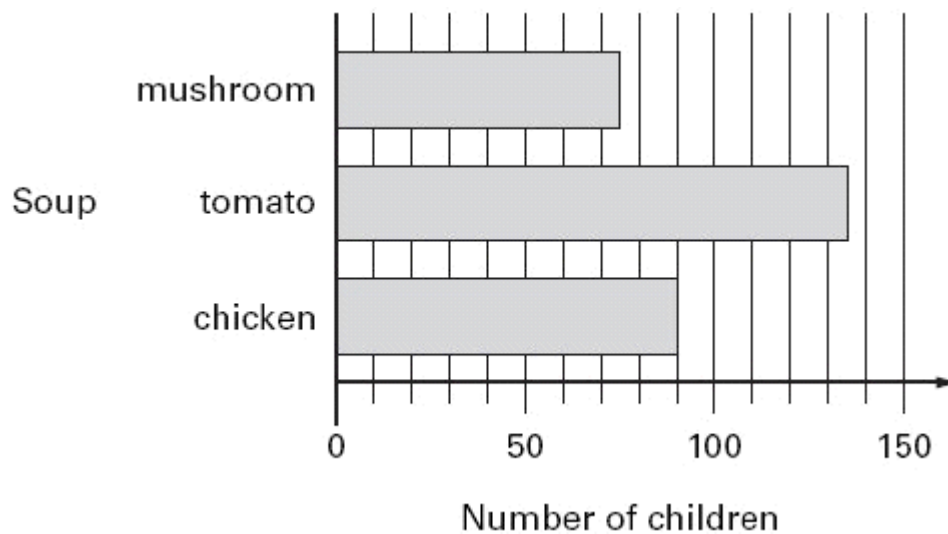
Estimate how many more Thank You cards than Get Well cards were sold.

1 mark

- 21.** 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

- 22.** 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

23.




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**.

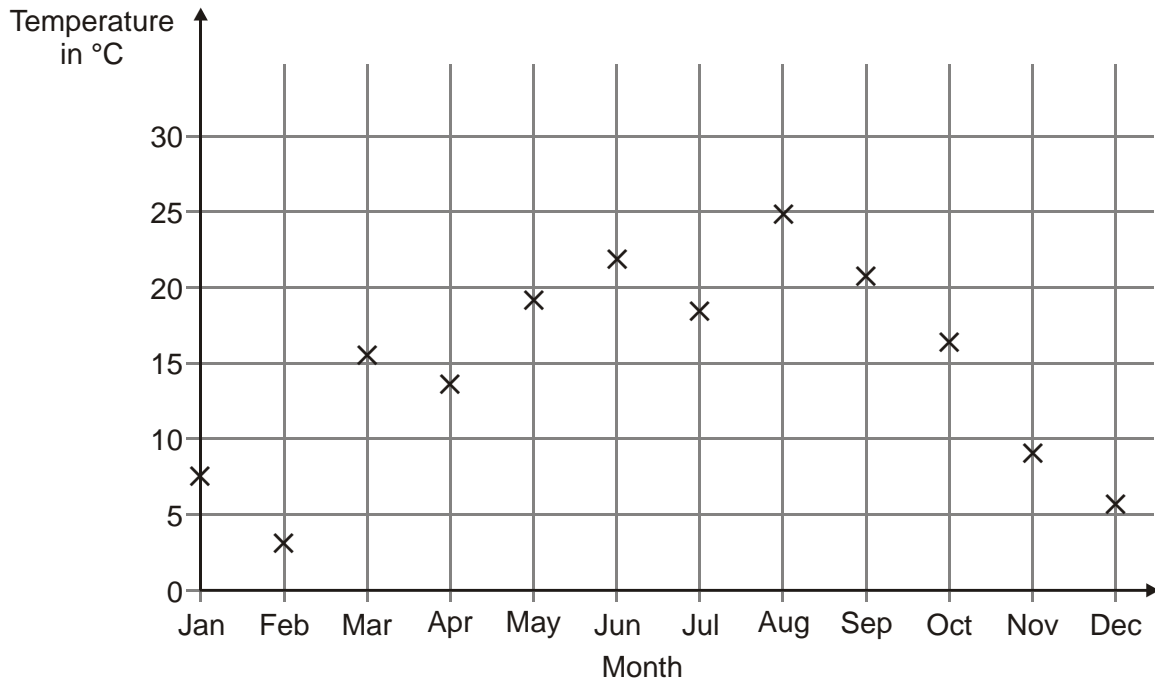
What **two** things can he buy for exactly **80p**?


 ..... and .....

1 mark

24. 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

25. Here is a sorting diagram for numbers.

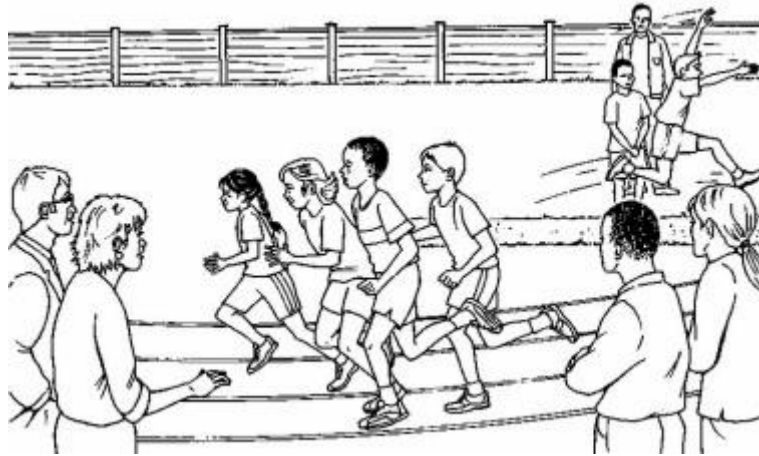
Write a number **less than 100** in each space.



	even	not even
a square number		
not a square number		

2 marks

26.

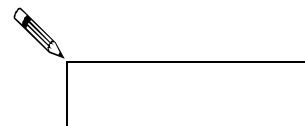


A school has sports day.

The winner of each event scores **10 points**.

This chart shows the points scored by each team.

Event	Team				
	Red	Green	Blue	Yellow	White
100m	8	6	2	10	4
Long jump	10	2	6	4	8
Relay	4	6	8	10	2
High jump	8	2	10	6	4



1 mark

Which team came **second** in the **relay**?

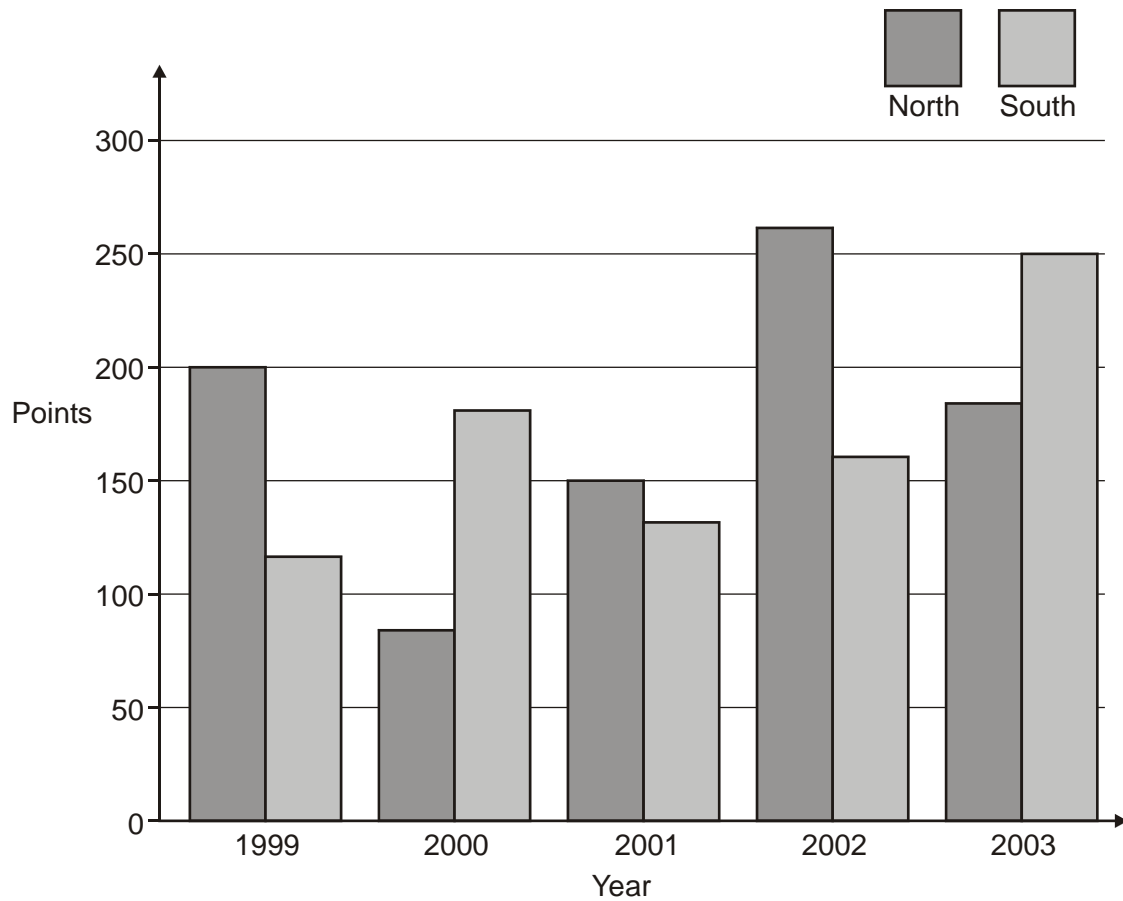


1 mark


27. 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?

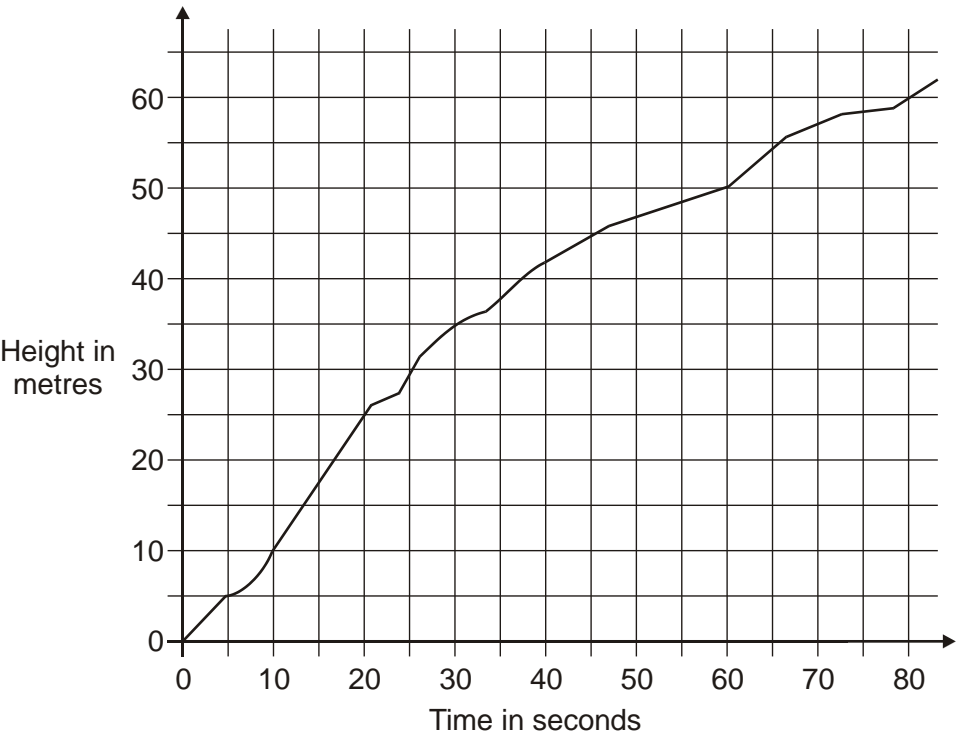


1 mark

28.




This graph shows the height of a balloon at different times.






From the graph, find the height of the balloon at 50 seconds.



**m**

1 mark

Use the graph to find out how long it took the balloon to rise from 30 metres to 60 metres.




**seconds**

1 mark

- 29.** 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

30. 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?



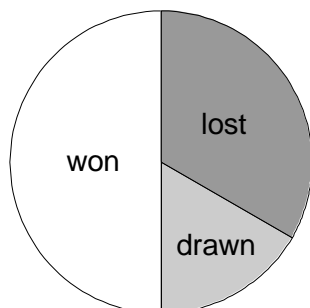
1 mark

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

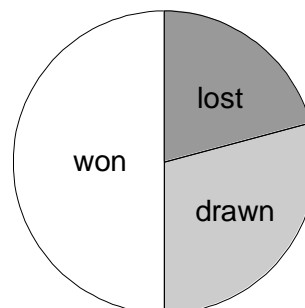


1 mark

31. 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

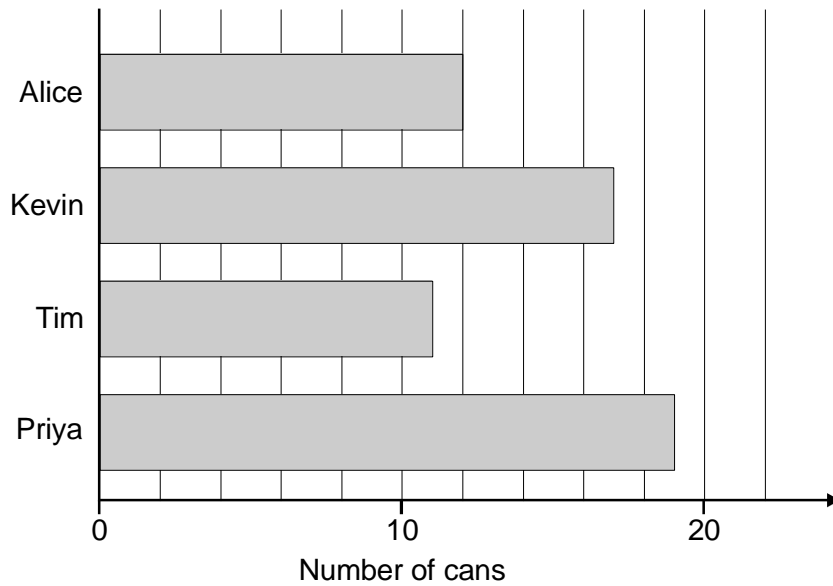
Explain how you know.




1 mark

32. 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?

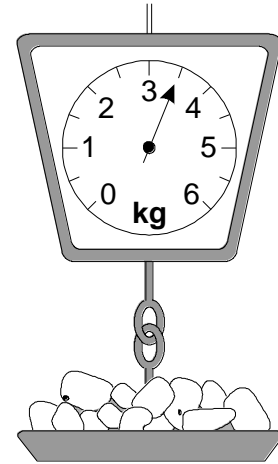


1 mark

33. This table shows the weight of some fruits and vegetables.

Complete the table.

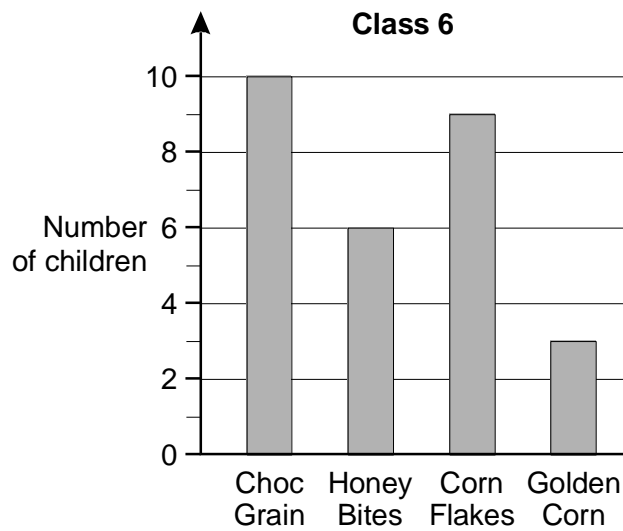
	grams	kilograms
potatoes	3500	3.5
apples		1.2
grapes	250	
ginger		0.03



2 marks

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

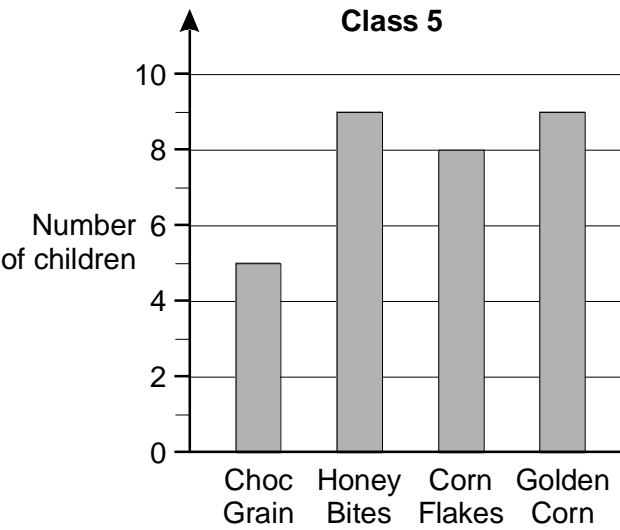
These are the results for Class 6




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

1 mark

These are the results for Class 5

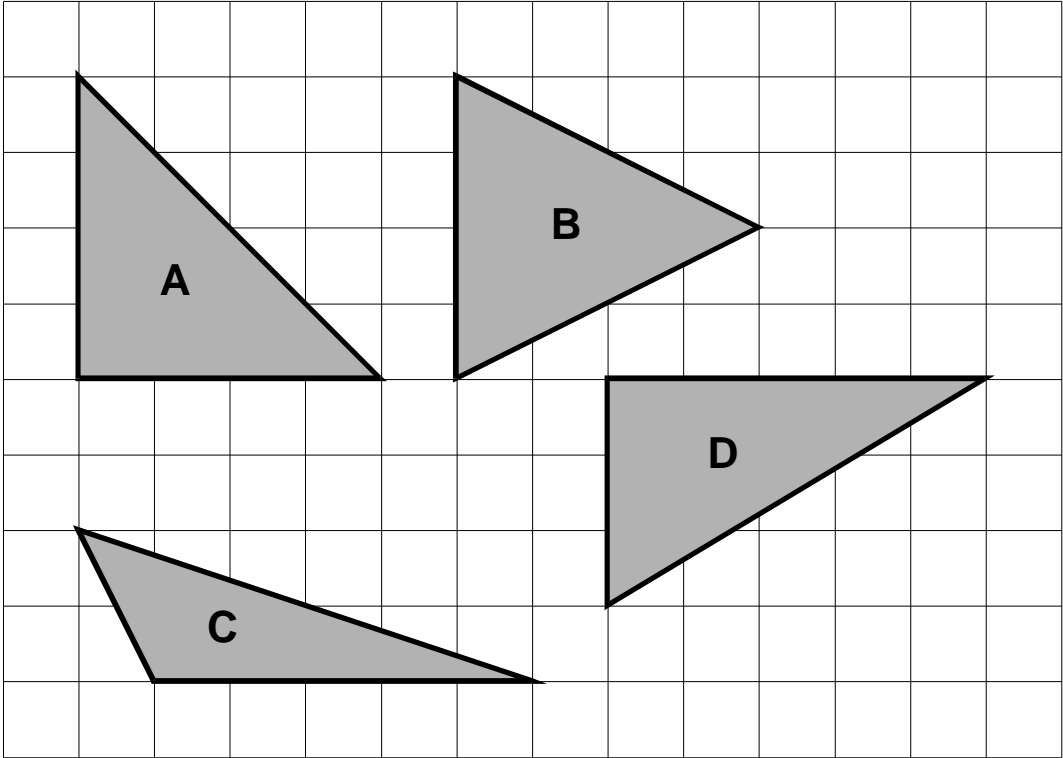


How many children in **both** classes like **Honey Bites** best?



1 mark

35. 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 <b>right</b> angle	has an <b>obtuse</b> angle	has 3 <b>acute</b> angles
is isosceles	<b>A</b>		
is <b>not</b> isosceles			

2 marks


36.



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

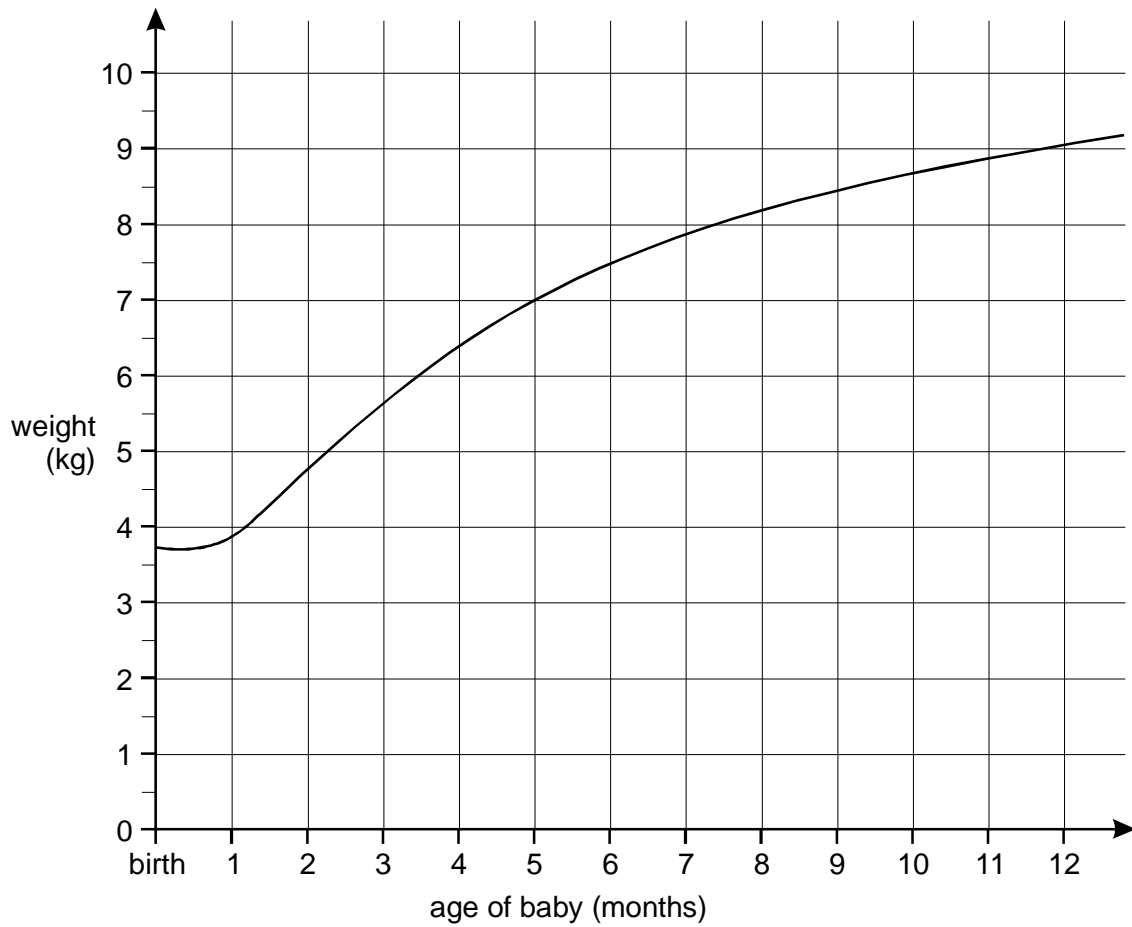
How much **more** does it cost for two adults to make a **single** journey to Hull than to Leeds?

 £


1 mark



37. 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

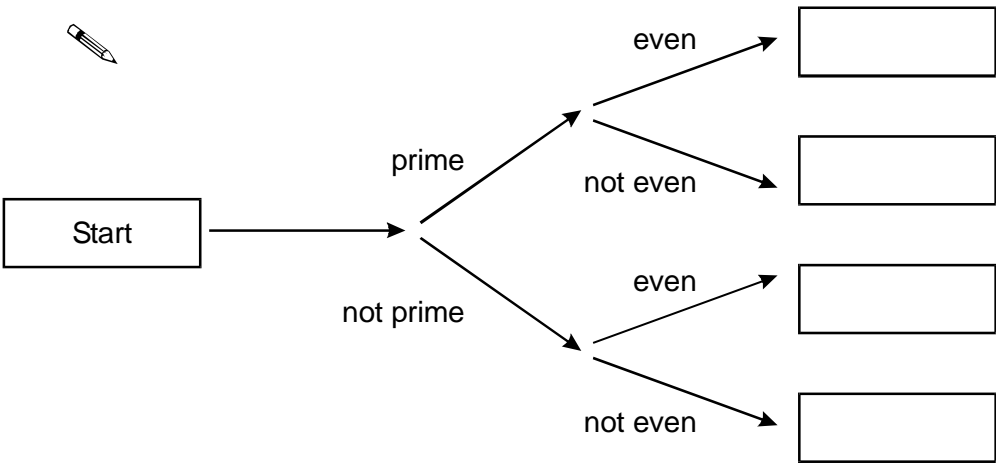
1 mark

38. Here is a diagram for sorting numbers.

Write these three numbers in the correct boxes.

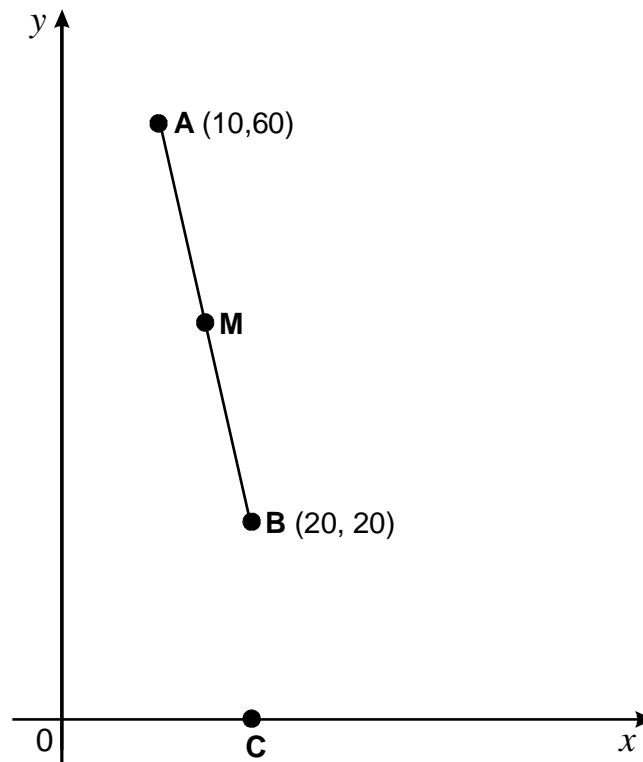
You may not need to use all of the boxes.

**9      17      20**



2 marks

39.




**A** is the point **(10, 60)**

**B** is the point **(20, 20)**

**M** is the midpoint of line AB.


Write the coordinates of **M**.



1 mark

**C** is on the  $x$ -axis, directly **below B**.

Write the coordinates of **C**.

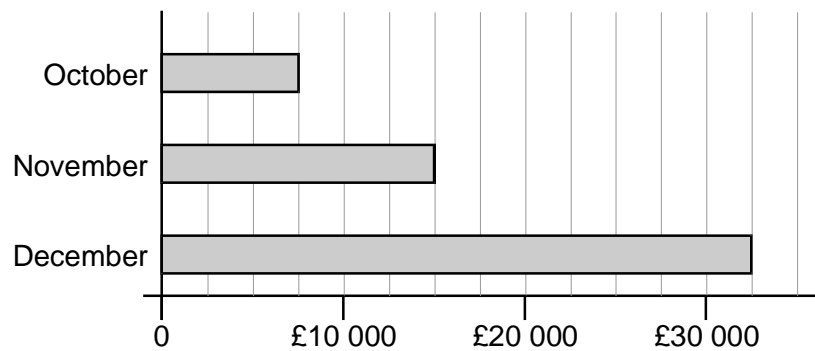


1 mark


40.



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.



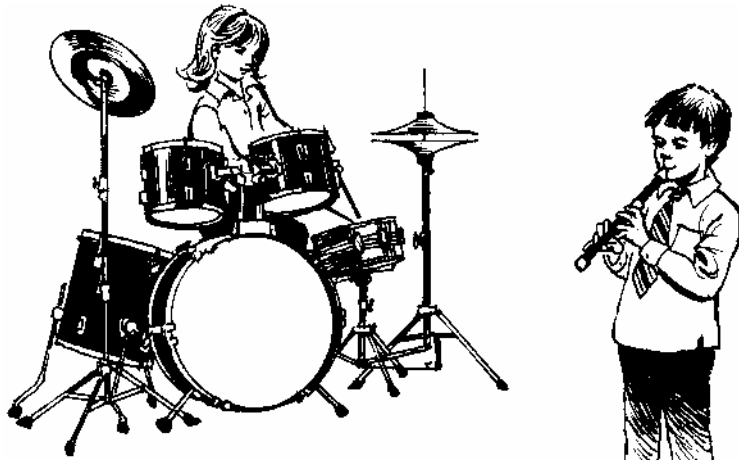
.....

.....

.....

1 mark

41.



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?

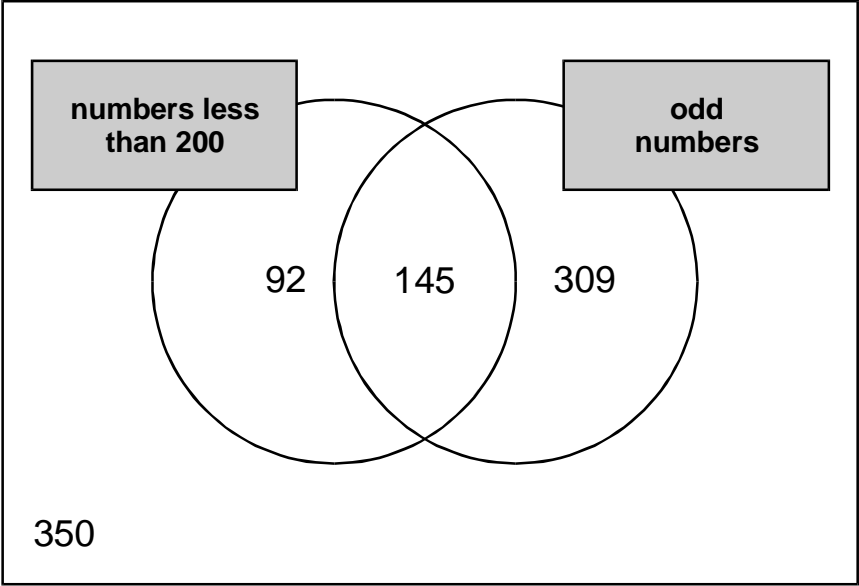


1 mark

42. Write these numbers in the correct places on the Venn diagram.

Some numbers are already placed.

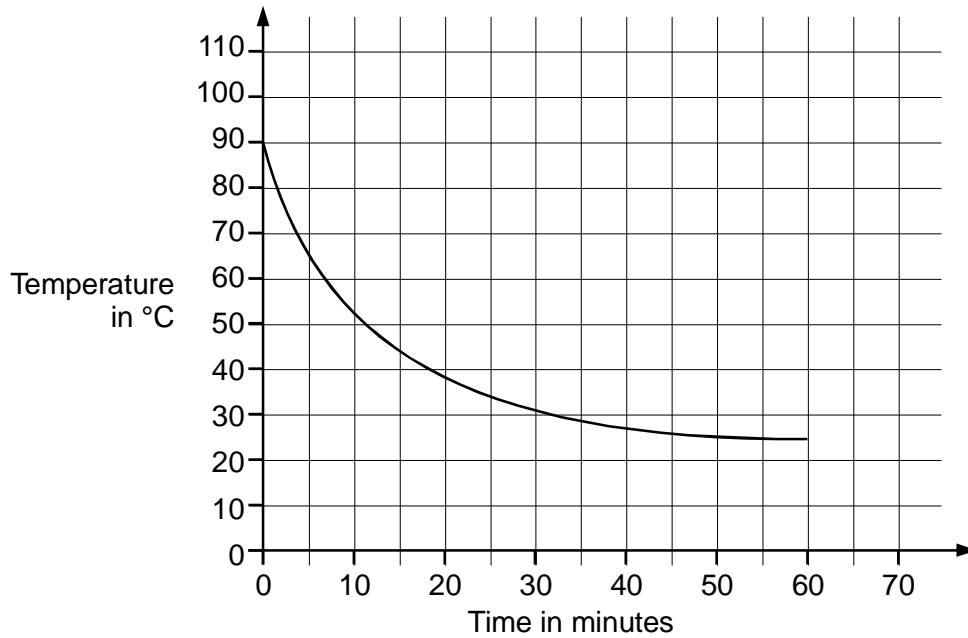
**99 170 221**



2 marks

43. 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**

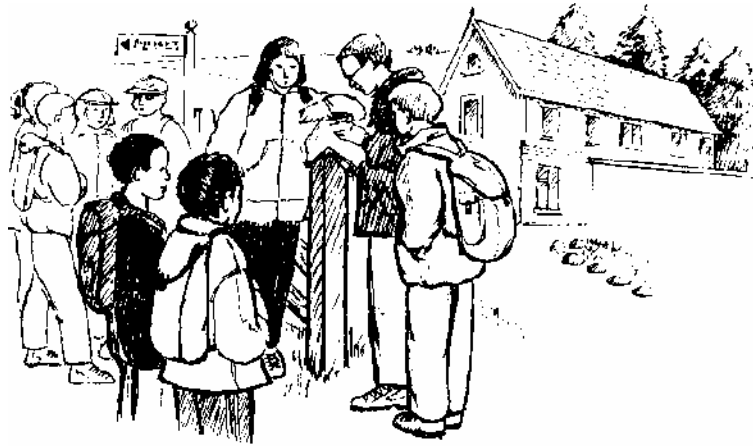


minutes

1 mark




44.



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

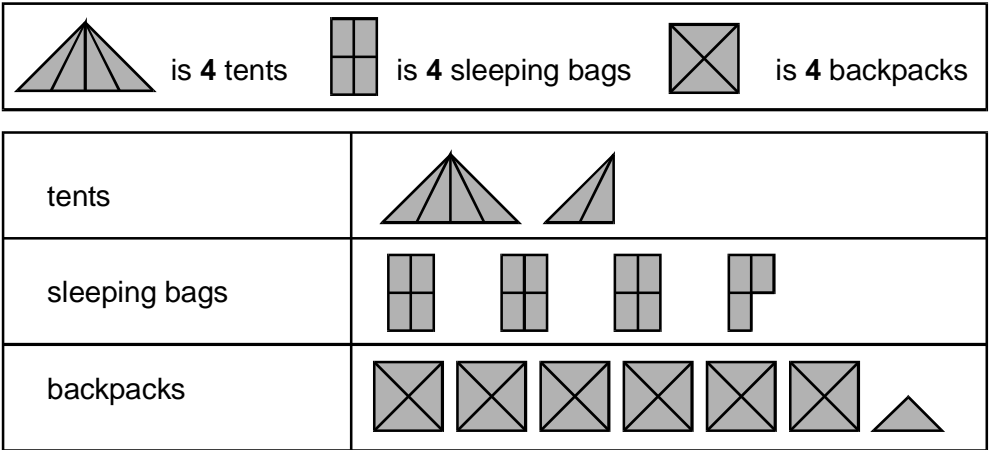
45.



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

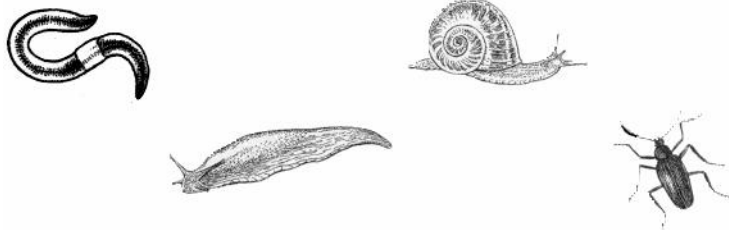
In **July**, the shop sold **three times as many tents** as in June.

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

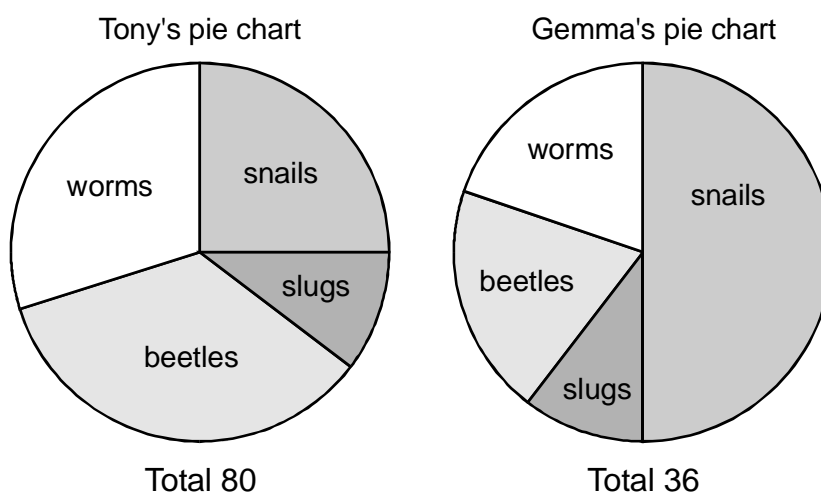


1 mark


- 46.** 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.



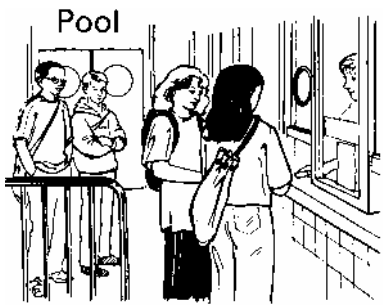
Tony / Gemma

Explain how you know.



1 mark


47.



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**.

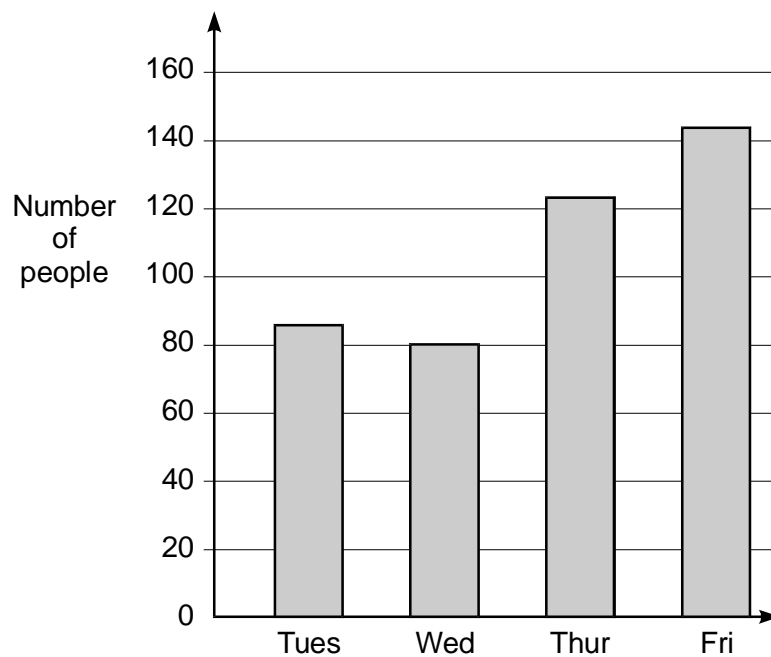
How many **minutes** is it before the pool closes?



minutes

1 mark

**48.** 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

49.  $n$  stands for a number.

Complete this table of values.



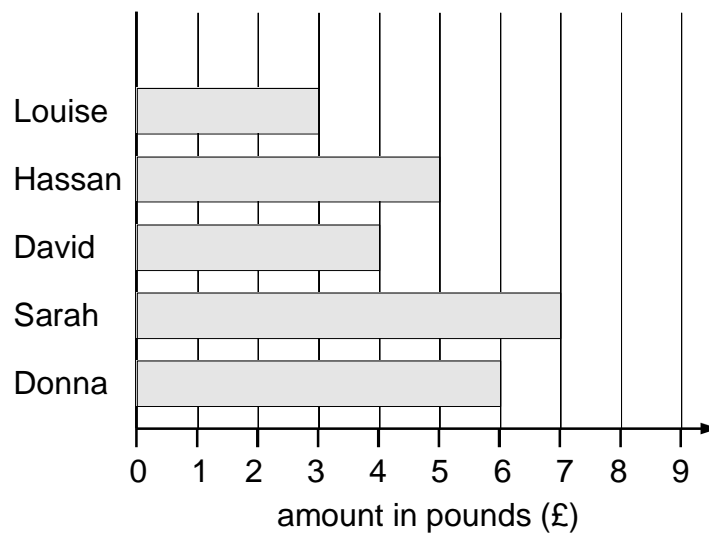
$n$	$5n - 2$
20	<div style="border: 1px solid black; width: 60px; height: 25px; margin: 0 auto;"></div>
<div style="border: 1px solid black; width: 60px; height: 25px; margin: 0 auto;"></div>	38

2 marks

50. Five children collect money to plant trees.



Here is a bar chart of the amounts they have raised so far.



Their target is **£40 altogether**.

How much **more** money do they need to reach the target?

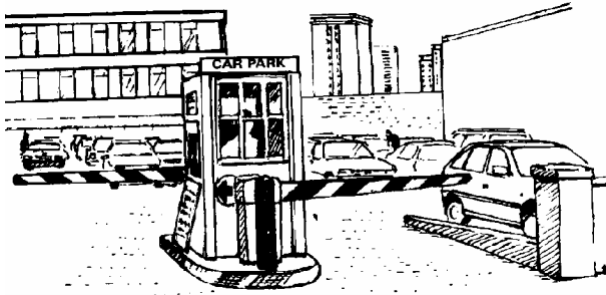
 Show your **working**. You may get a mark.

£

2 marks



51.



Car Park charges	
Time	Charge
up to 1 hour	20p
1 to 2 hours	50p
2 to 3 hours	£1.00
3 to 4 hours	£1.70
over 4 hours	£5.00

Emma parks her car at **9.30 am**.

She collects the car at **1.20 pm**.

How much does she pay?



1 mark

Dan and Mark both use the car park.

Dan says,

***'I paid exactly twice as much as Mark but I only stayed 10 minutes longer'.***

Explain how Dan could be correct.



.....

.....

.....

1 mark

52. 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?




1 mark

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

When is it collected from the post box?



day ..... time .....

1 mark


53. 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**.

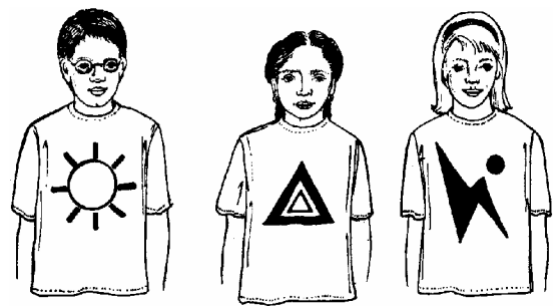
At what **time** did the boat leave?



pm




1 mark

54. Patterns are printed on T-shirts.




A shop sells 3 sizes of T-shirt, **small, medium** and **large**.

The table shows the number of T-shirts sold in one week.


T-shirts sold in one week			
Sizes	Pattern		
			
small	8	17	15
medium	11	14	9
large	14	5	8

How many **medium** T-shirts are sold in the week?

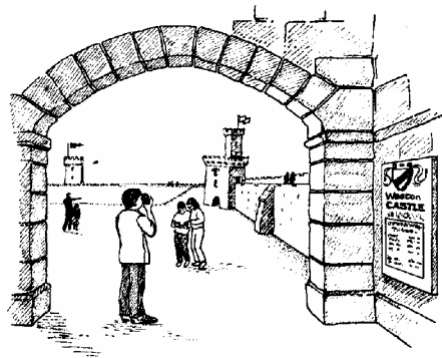
1 mark

How many T-shirts with  on them are sold in the week?

1 mark


55.



Weston Castle Opening Times

	July 1st to August 31st	September 1st to June 30th
Monday to Friday	10 am – 7 pm	closed
Saturday and Sunday	9 am – 8 pm	1 pm – 5 pm

At what time does the castle **close** on **Wednesday July 15<sup>th</sup>**?



1 mark

For which **months** is the castle open **seven days a week**?



.....

1 mark

On **Sunday March 8<sup>th</sup>** John goes into the castle at **3 pm**.

He stays until closing time.

For how many **hours** does he stay in the castle?



hours

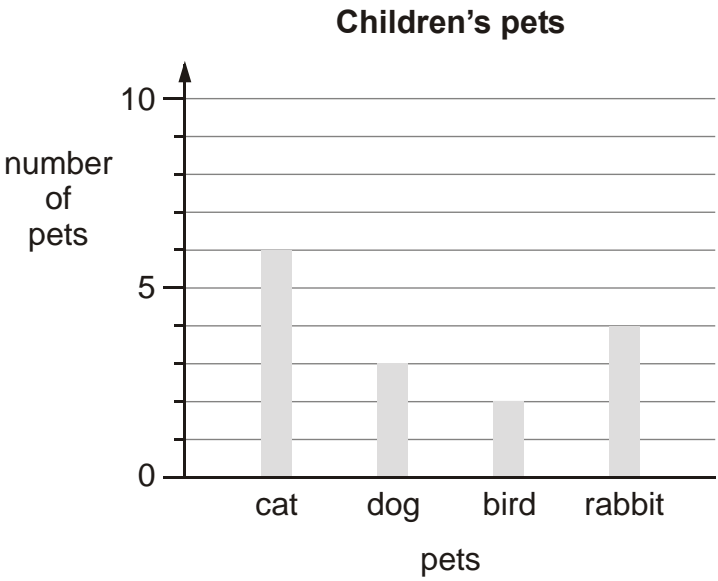
1 mark

**56.** Here is a table of the pets owned by **six** children.

Name of child	Cat	Dog	Bird	Rabbit
David	3	1	0	0
Julie	0	0	1	2
Carl	2	0	0	1
Terry	0	1	0	1
Mary	0	2	0	0
Hawa	1	0	1	1



Here is a graph of the pets of **five** of the children.




The pets of **one** of the children are not on the graph.

Whose pets are **not** on the graph? ..  .....

1 mark

Explain how you know.

 .....

.....

.....

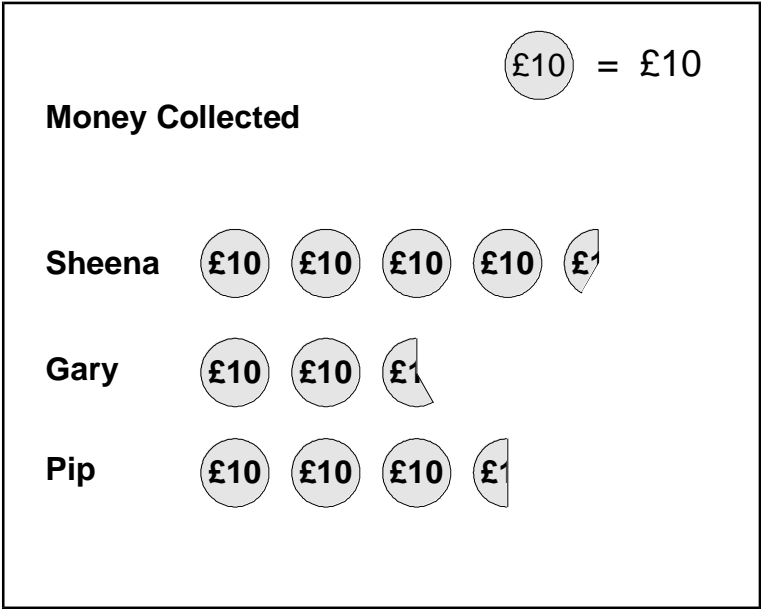
1 mark




57. 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.



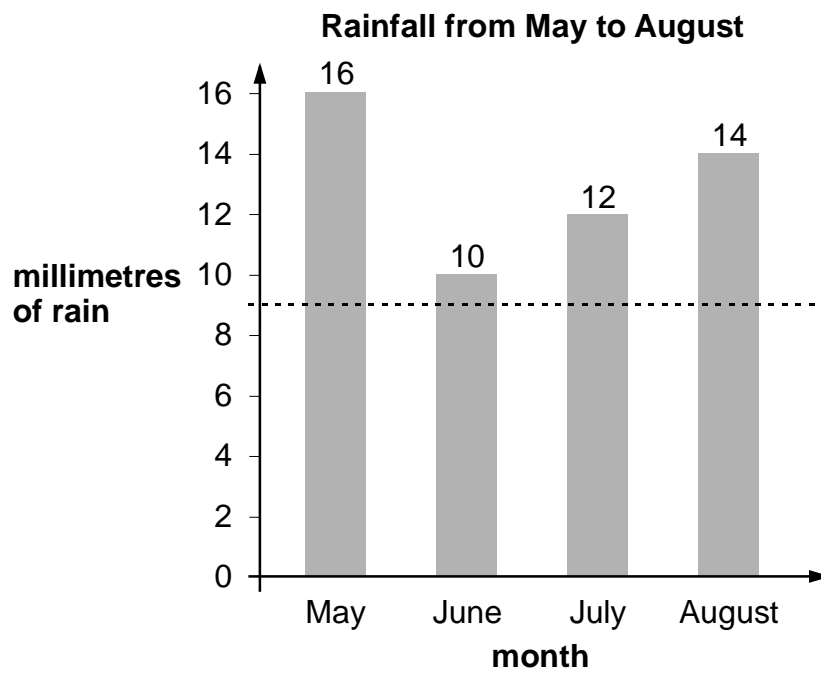
.....

.....

.....

1 mark

**58.** Here is a bar chart showing rainfall.



Kim draws a dotted line on the bar chart.

She says,

***‘The dotted line on the chart shows the mean rainfall for the four months.’***

Use the chart to explain why Kim **cannot** be correct.



.....

.....

.....

1 mark

What is the **mean** rainfall for the four months?



mm

1 mark

59.



Here are the times of some television programmes.

Channel 1		Channel 2	
7.00	Cartoon	7.00	Local News
7.15	Film	7.45	Quiz Show
9.00	News	8.30	Comedy
9.30	Weather	9.00	Hospital Drama
9.35	Sport	10.00	Pop Chart
10.20	Drama	10.40	Film

What is showing on **Channel 2** at **ten minutes to eight**?



.....

1 mark

Tom watches **Hospital Drama** and then **changes** to **Channel 1** at the end.

What is showing on **Channel 1** when he changes channel?



.....

1 mark

The film on **Channel 2** starts at **10.40**

It lasts for **one and a half hours**.

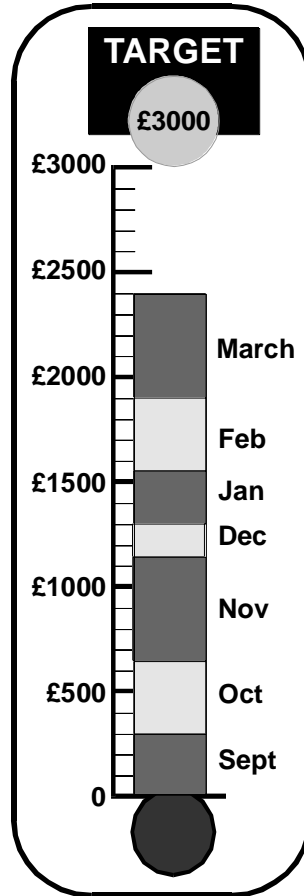
At what time does the film **end**?



1 mark


60. A school collects money for charity.

This chart shows how much has been collected.



The target is **£3000**.

Estimate how much **more** money the school needs to reach the target.



1 mark

Anil says,

***The chart shows that we will reach the target in two months.***

Use the chart to explain why Anil may be wrong.



.....

.....

.....

1 mark

61. Chris did a survey of the number of people who went into shops in one hour.



<b>Number of people who went into a shop</b> ++++ stands for 5 people	
Shoe shop	++++ ++++
Newsagent	
Post Office	++++ ++++ ++++ ++++
Bread shop	++++ ++++
Supermarket	++++ ++++ ++++

How many people went into the **Supermarket** in the hour?



1 mark

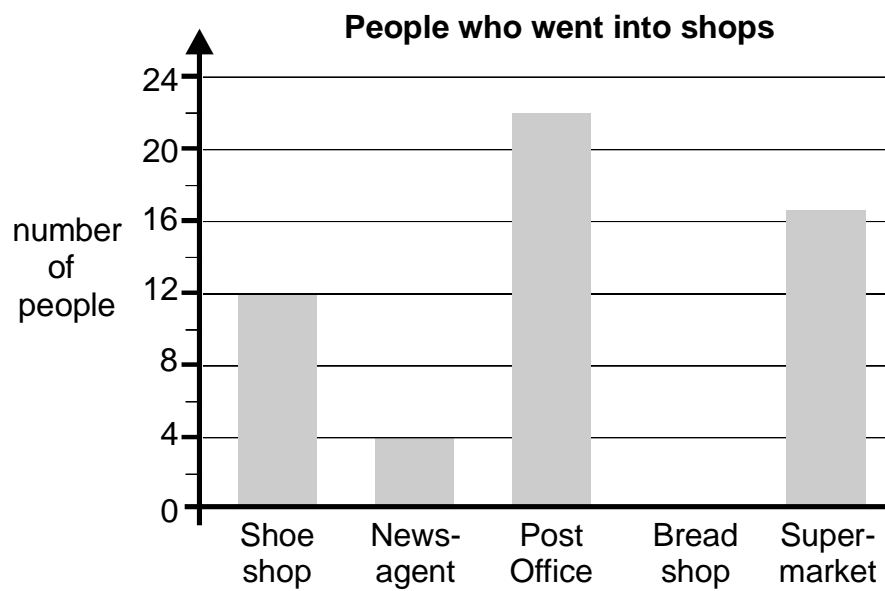
How many **more** people went into the **Post Office** than the **Shoe shop**?



1 mark

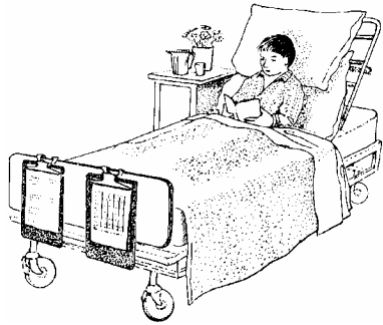
Here is part of a bar chart of the information.

Draw in the **missing** bar.

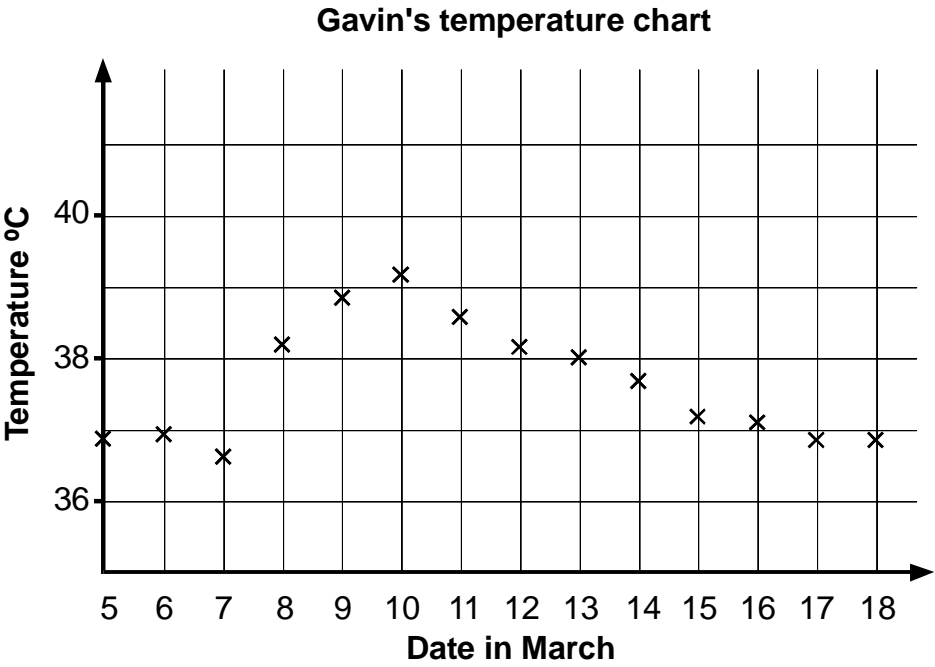


1 mark

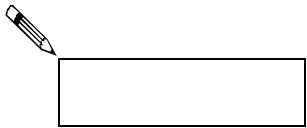
62. Gavin was ill in March.



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**.

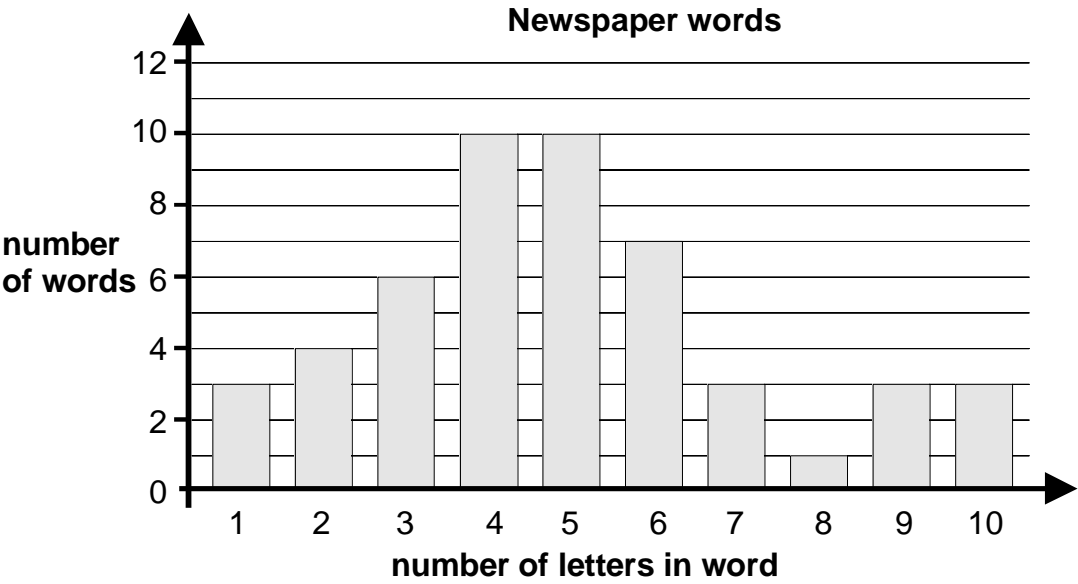
  °C

1 mark

63. 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