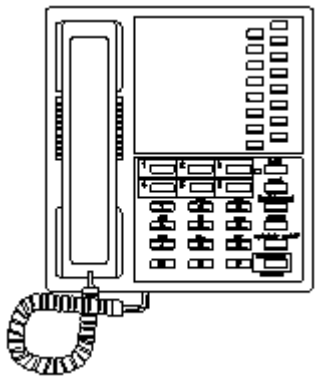
Q1. Tom collects information about how long the phone calls are in his house.



He makes a frequency table using class intervals of 30 seconds.

Here is **part** of the table.

length of call in secs.	0 - 29	30 - 59	60 - 89	90 -119
number of calls	3	25	35	19

The **longest call** was 175 seconds.

Which **class interval** does this fit into?

1 mark

Altogether he recorded **91 calls**.

Tom makes a **rough estimate** that half the calls lasted less than 75 secs.

Explain how he could make this estimate.

.....

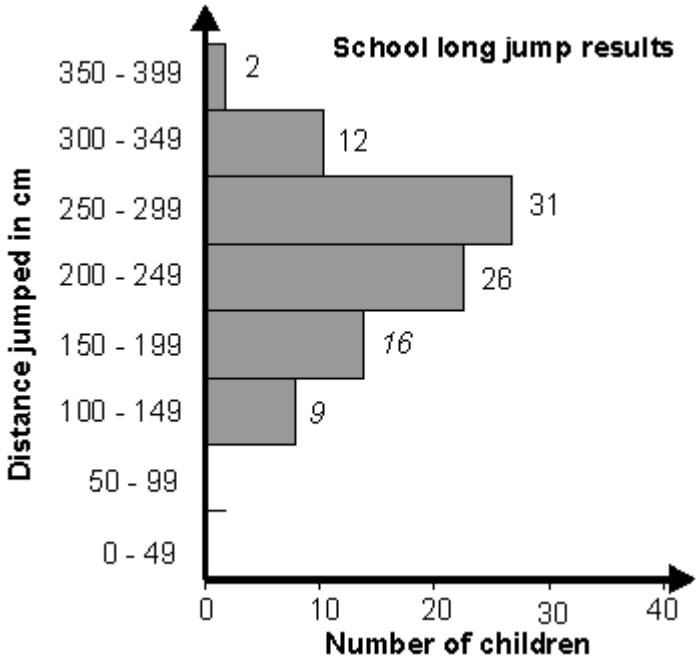
.....

.....

1 mark

Q2. Here are the long jump **results** for a school.

They are measured to the **nearest centimetre.**



Steve jumped **315cm**.

He says,

'Only 2 people jumped further than me.'

Could he be correct? Circle **Yes** or **No**.

Yes / No

Explain your answer.

.....

.....

.....

1 mark

Ruby says,

'The median jump was 275cm.'

She is **not** correct.

Explain how the graph shows that she is **not correct**.

.....

.....

1 mark

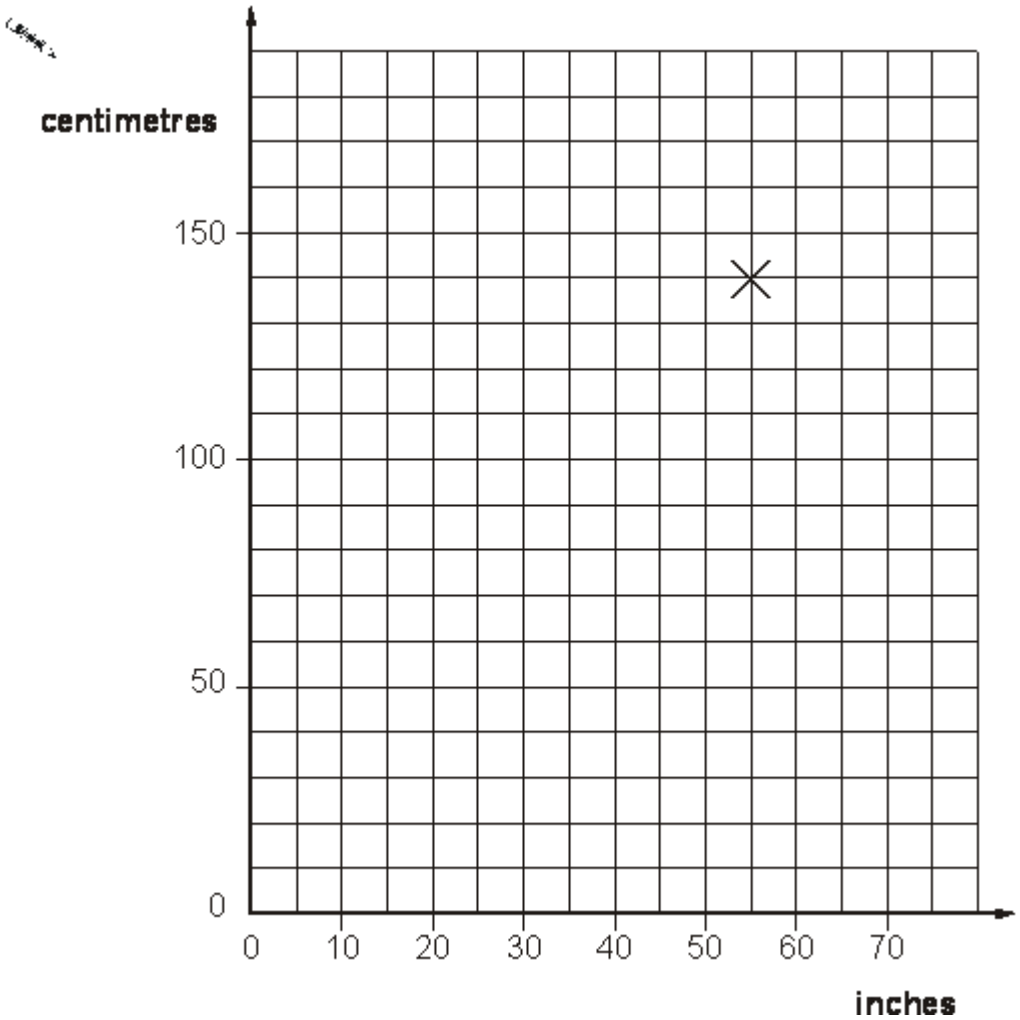
Q3. Kevin measures his height in **inches** and then in **centimetres**.

These are his measurements.

	inches	centimetres
Kevin's height	55	140

The cross on the grid shows Kevin's height in inches and centimetres.

Draw a line on the grid to make a **conversion graph** for **inches** and **centimetres**.



1 mark

Sally is **168cm** tall.

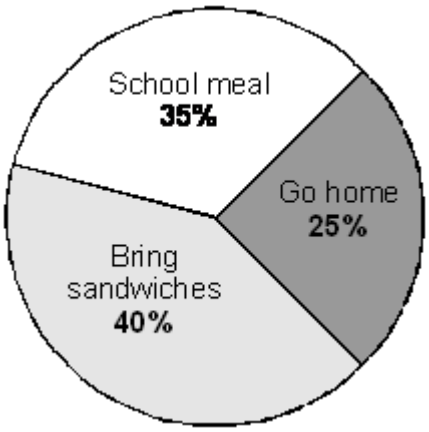
Use the graph to **estimate** Sally's height in **inches**.

inches

1 mark

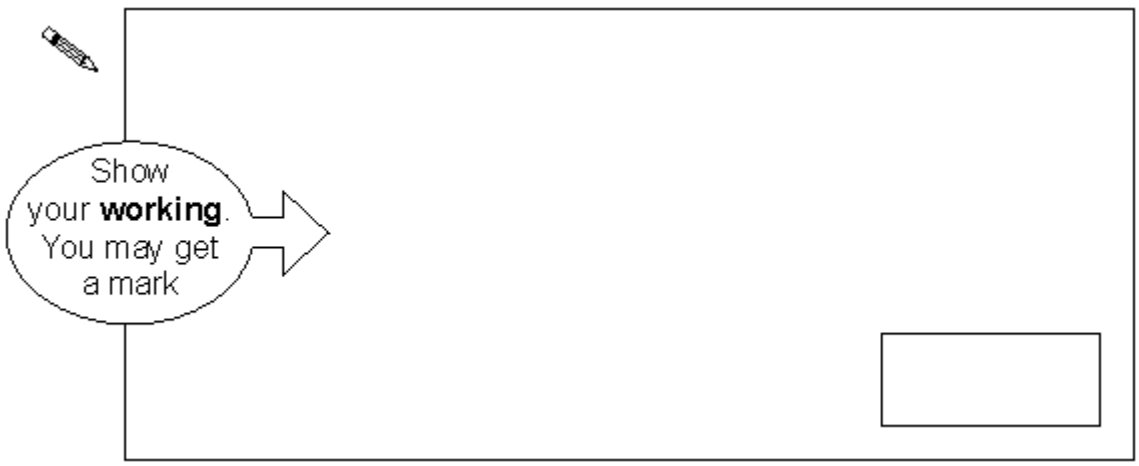
Q4.

This pie chart shows the lunch choices of year 6 children at a school.



28 children in year 6 have a **school meal**.

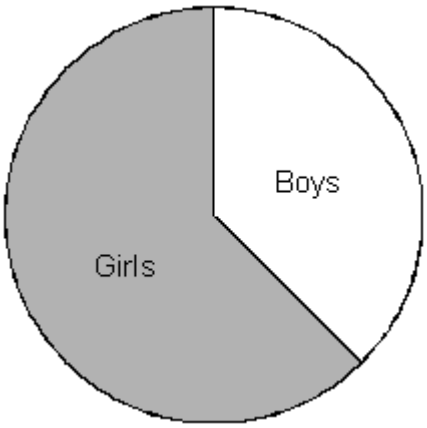
How many **go home** for lunch?



2 marks

Q5. Sarah makes a pie chart to show the proportion of boys and girls in her class.

	Number in class	Size of angle on pie chart
Boys	14	144°
Girls	21	216°



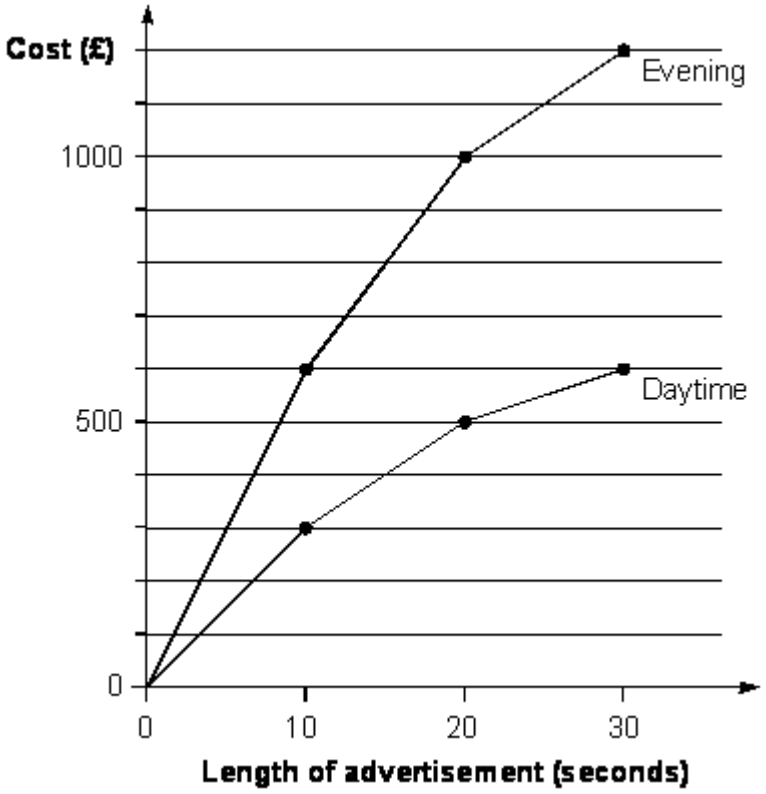
The next day another **boy** joins Sarah's class.

She makes a new pie chart.

Calculate the angle for **boys** on the new pie chart.

2 marks

Q6. This chart gives the cost of showing advertisements on television at different times.



An advertisement lasts **25 seconds.** Use the graph to estimate how much **cheaper** it is to show it in the **daytime** compared with the **evening.**

£

1 mark

An advertisement was shown in the **daytime** and again in the **evening.**

The total cost was **£1200**

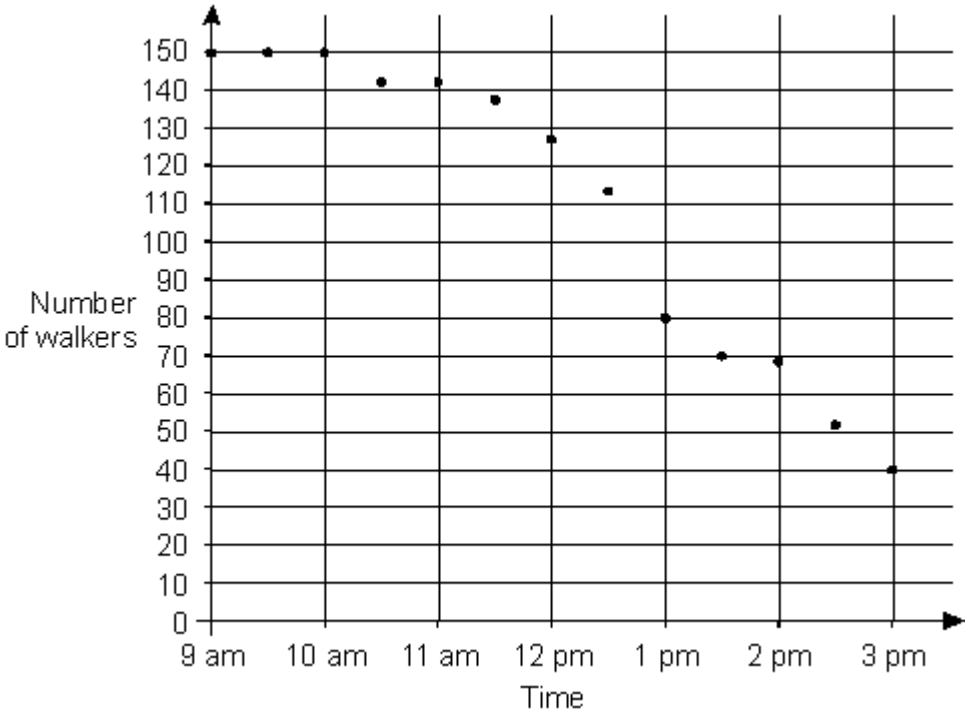
How long was the advertisement in seconds?

seconds

1 mark

Q7. **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

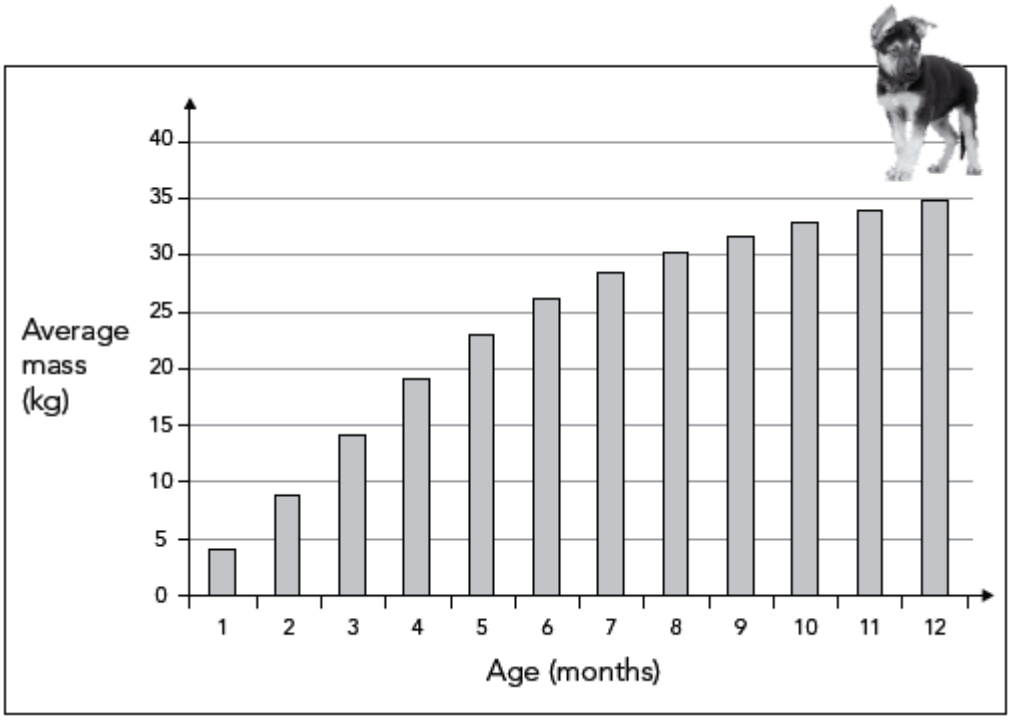
What **percentage** of the people who started are **still on the walk at 3pm**?

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

%

2 marks

Q8. Here are two pieces of information about dogs called German Shepherds.



The average mass of an **adult** German Shepherd is about 35 kg.

Use **both** pieces of information to summarise how German Shepherd dogs grow.

.....

.....

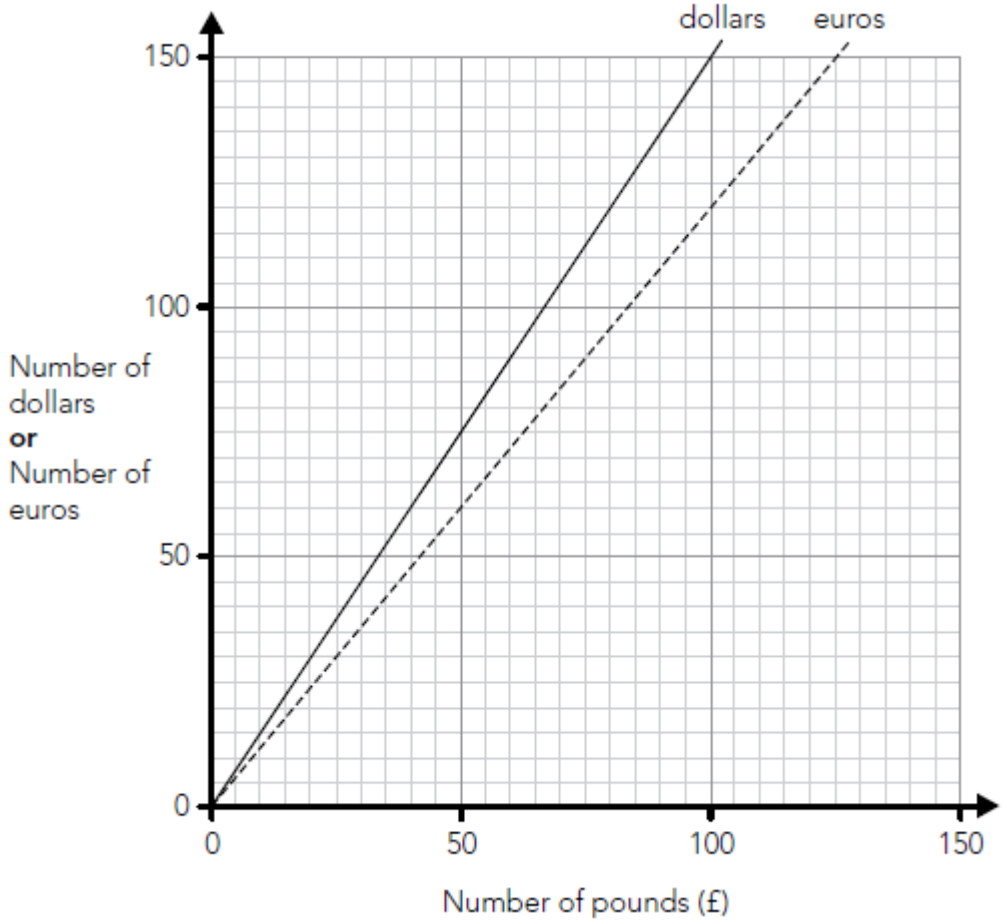
.....

.....

.....

2 marks

Q9. Nik uses this graph to change between pounds (£), dollars and euros.



Use the graph to work out the missing numbers below.

The first one is done for you.

£70	is about the same as	**84 euros**

£70	is about the same as	_____**dollars**

120 dollars	is about the same as	**£** _____

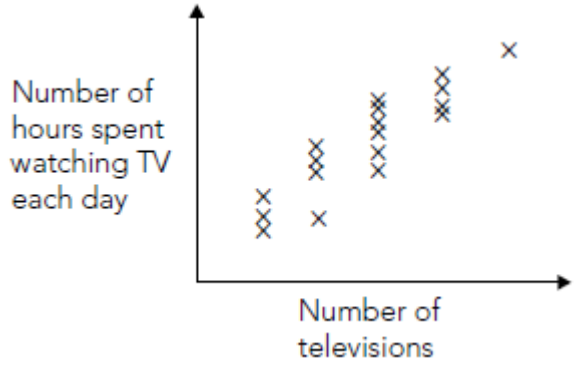
1 mark

120 euros	is about the same as	_____ **dollars**

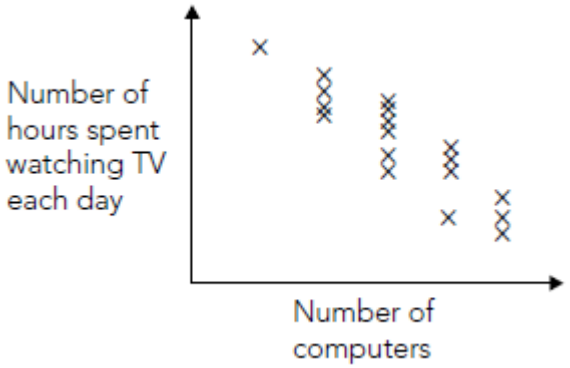
1 mark

Q10. Here are three scatter diagrams, labelled A, B and C.

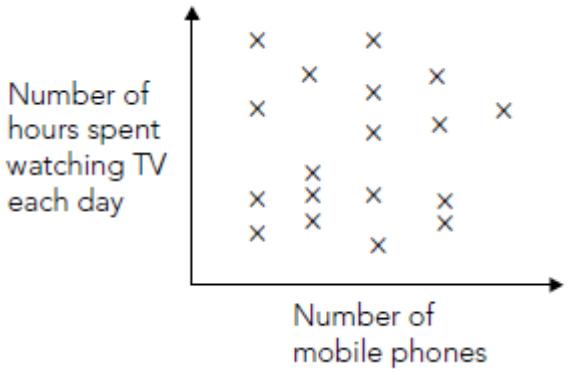
Scatter diagram A



Scatter diagram B



Scatter diagram C



Kemi writes:

Scatter diagram **A** shows that .....**the more televisions a person has in**.....

their home the more hours they spend watching television.....

.....

Now complete the sentences below.

Scatter diagram **B** shows that.....

.....

.....

1 mark

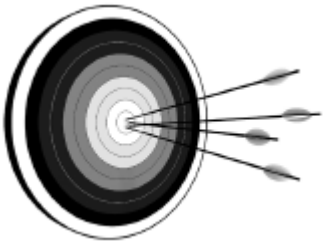
Scatter diagram **C** shows that.....

.....

.....

1 mark

Q11.
Archery is an Olympic sport.



In 2008, two archers called Park and Zhang were in the women's final.

Both archers shot **12 arrows**.

Zhang won the final **by 1** point.

Complete the table for Zhang below.

You can use the space to show your calculations.

Show your method

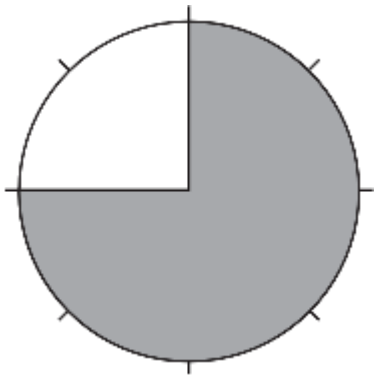
Name of archer: **Park**	
What she scored with her **12 arrows**	
Number of points	Frequency
7	0
8	4
9	3
10	5

Name of archer: **Zhang**	
What she scored with her **12 arrows**	
Number of points	Frequency
7	1
8	0
9	
10	

2 marks

Q12. Look at the information in these two pie charts.

Pupils in class 6K

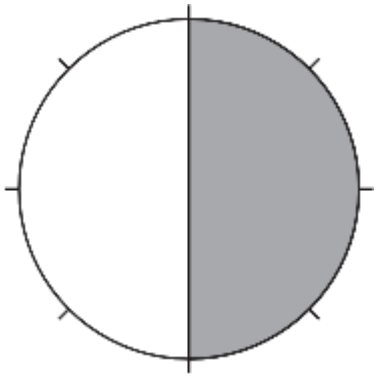


Key:

Girls

Boys

Girls in class 6K



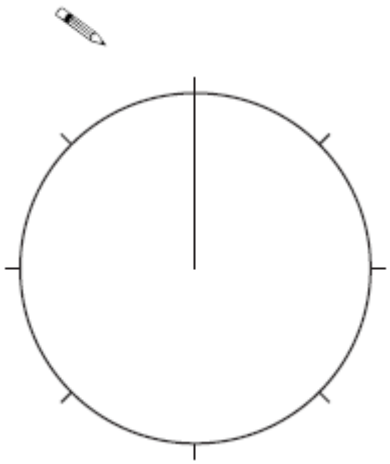
Key:

11 years old

Not 11 years old

Use the informaion in the two pie charts to complete the pie chart below.

Pupils in class 6K



Key:

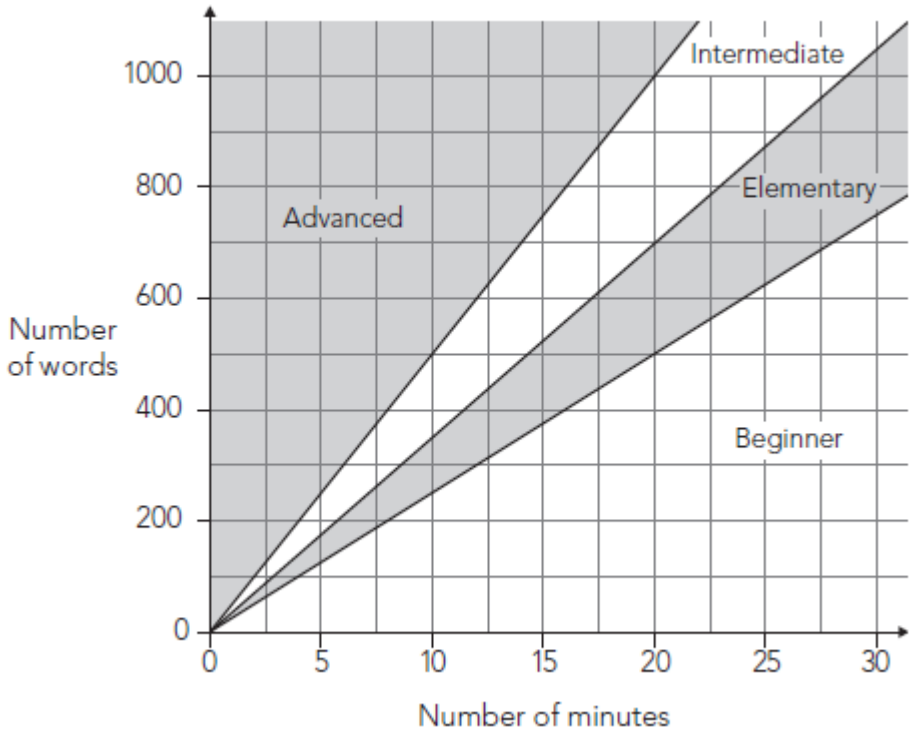
11 year-old girls

All other pupils in the class

1 mark

Q13. How fast you can type accurately is called your typing speed.

The regions of the graph show information about different typing speeds.



Darren's level of typing is **elementary**.

In **20 minutes** he should be able to type between 500 and 700 words.

Jo's level of typing is **intermediate**.

How many words should she be able to type in **20 minutes**?

Between ..... and .....

1 mark

Kath's typing speed is **30 words per minute**.

What level is Kath's typing?

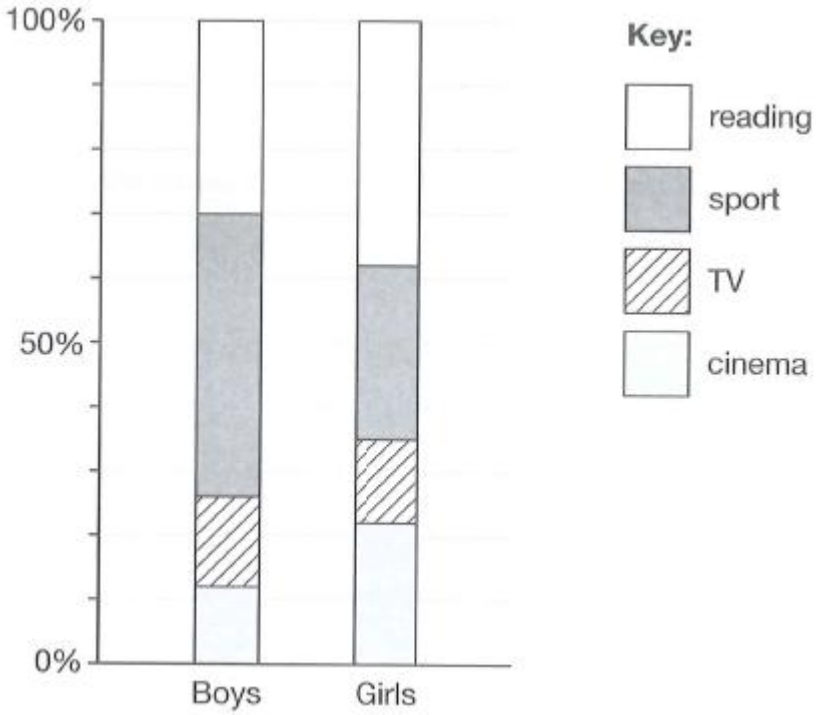
☐ Advanced ☐ Intermediate ☐ Elementary ☐ Beginner

Explain how you know.

1 mark

Q14. Alfie asks some boys and girls about their favourite hobby.

He shows the results on a graph.



The graph shows that **44%** of boys chose sport.

Estimate the percentage of **girls** who chose sport.

%

1 mark

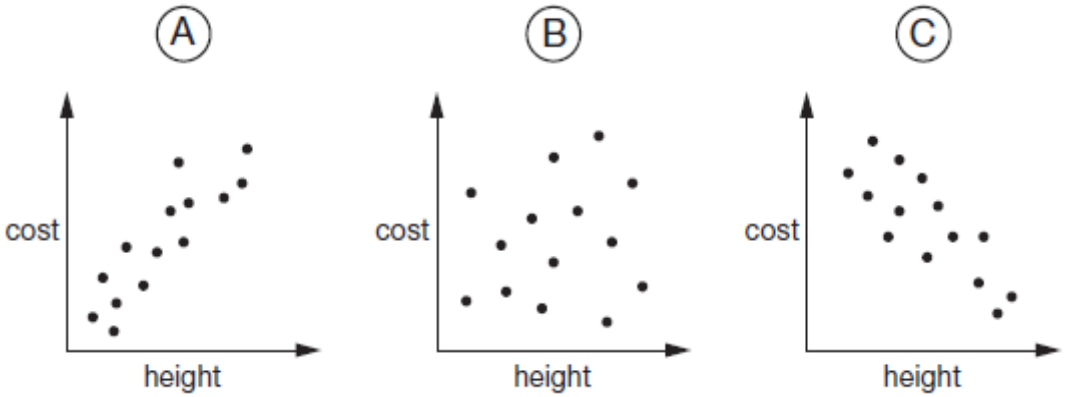
120 boys chose reading.

Estimate the **number** of boys who chose **cinema**.

boys

1 mark

Q15. Here are three scatter graphs showing the heights of people and the cost of clothes.



Chen says,

'The taller you are, the more your clothes cost.'

Megan says,

'The shorter you are, the more your clothes cost.'

Alfie says,

'There is no relationship between your height and what your clothes cost.'

Write the letter of each scatter graph that shows what each person says.

Chen..... Megan ..... Alfie .....

1 mark