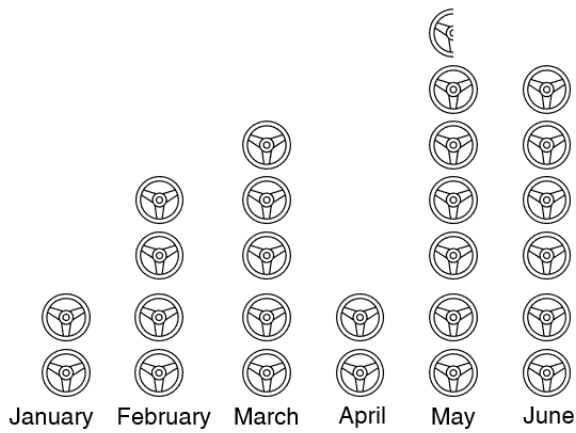


1

This pictogram shows how many electric cars a garage sold per month



In January, 12 cars were sold.

How many cars were sold in **May**?

cars

What was the **mean** number of cards sold each month?

Round your answer to the **nearest whole number** of cars.

cars

2

It is sustainability week and a school put on talks about sustainability for pupils.

There is choice of going during lunchtime or after school.

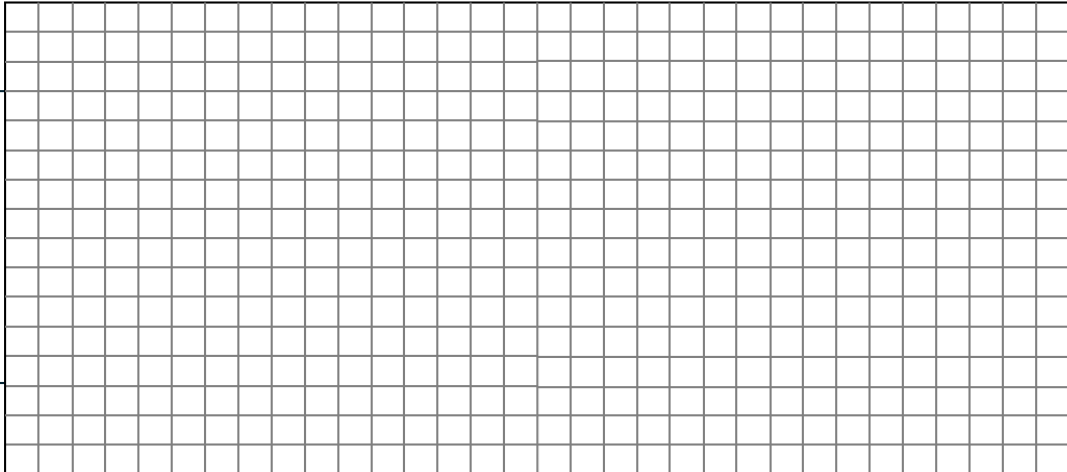
This table shows the number of sessions and number of spaces in each session

Time of session	Number of sessions	Number of spaces in session
Lunchtime	9	24
After school	6	15

“More pupils can go to a session at lunchtime than after school”

Show that this statement is **true**.

Show your working

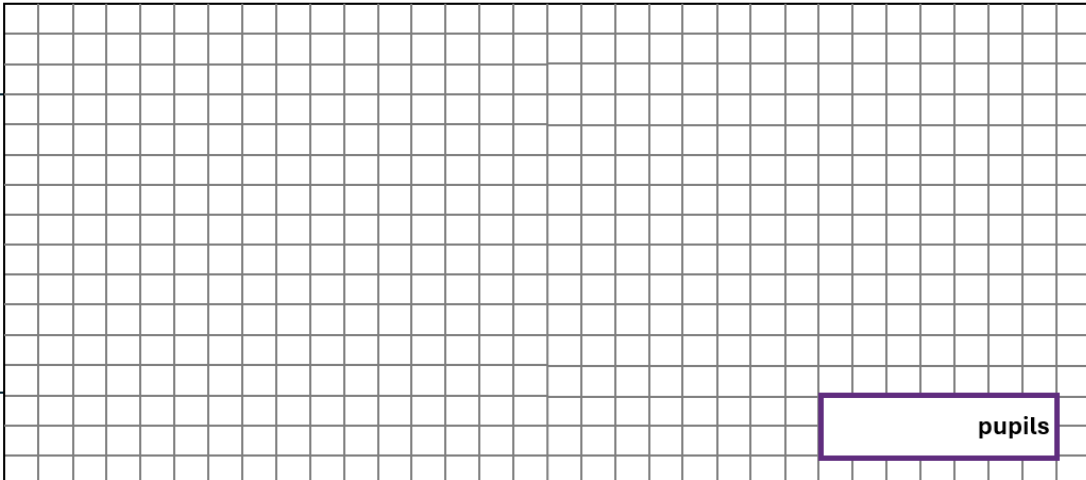


All pupils in the school must attend one of the sessions.

One after school session is only  $\frac{1}{3}$  full. The rest of the sessions are full.

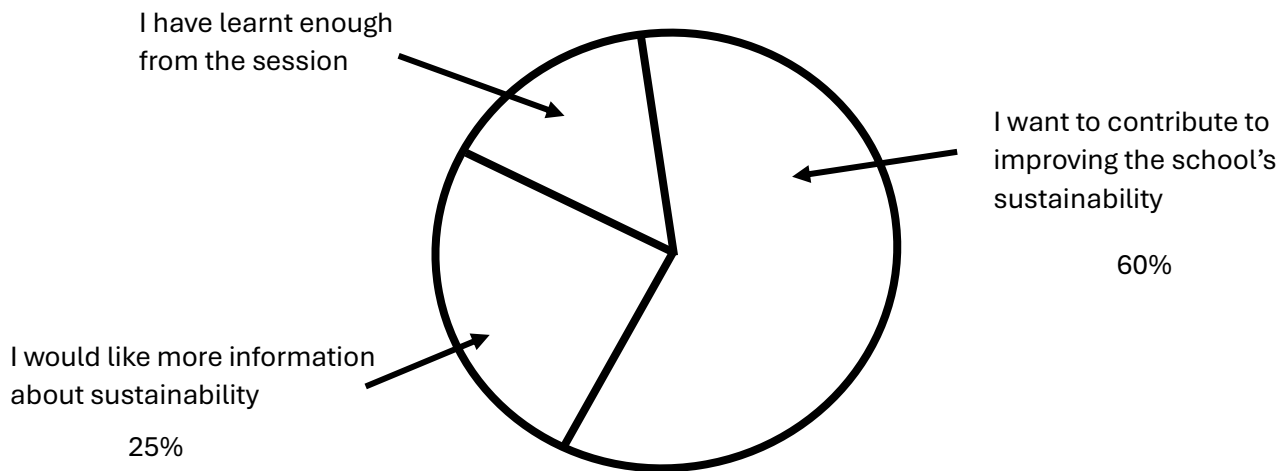
How **many** pupils are in the school?

Show your method



pupils

Feedback from the session is shown in the pie chart.



What is the **percentage** of pupils who said 'I have learnt enough from the session'?

	%
--	---

3

Pupils vote for their favourite season.

Season	No of votes
Spring	77
Summer	200
Autumn	56
Winter	?
Total	400

How many pupils voted for **winter**?

pupils

How many **more** people voted spring than voted for autumn?

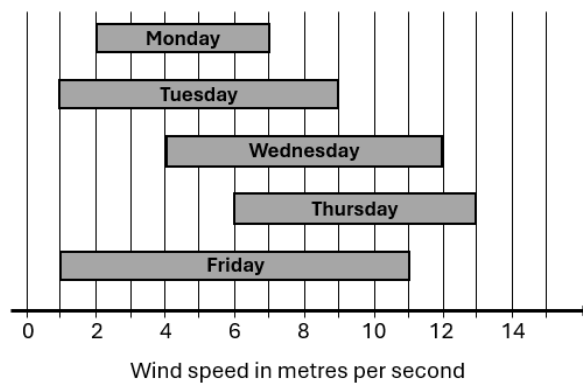
pupils

Charlie says that more than  $\frac{1}{8}$  of pupils like autumn the most. Is Charlie correct?

Explain your answer here

4

This chart shows the range of wind speeds each day during one week from Monday to Friday.



What was the **lowest** wind speed?

What is the **difference** between the highest and lowest wind speed on **Wednesday**?

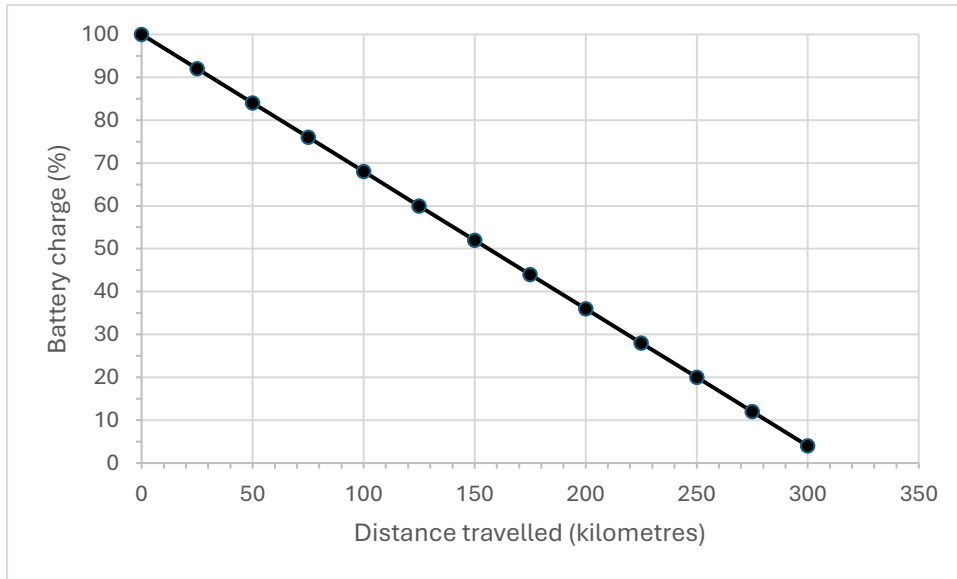
Which day had the largest **range** of wind speeds?

What is the **difference** between the highest and lowest wind speed over the whole week?

5

Ria’s school buy a new electric minibus for trips.

The graph below shows how the battery charge decreases with distance travelled.



The bus driver has never driven the bus far enough to drain the battery completely.

Use the graph to work out how far can the bus travel using **all the battery**.

Use a ruler.

kilometres

To look after the battery, the manufacturers suggest charging to 80% rather than 100%.

How far can the bus travel with **80% battery**?

kilometres

The school go on a fieldtrip to the Lake District. The journey is **160 kilometres**.

The bus driver sets off with **100% charge**. He says they cannot get back to school without charging the battery again.

Is he correct? Circle the answer and explain.

Correct / Wrong

Explain your answer here





6

A class are trying to improve the number of insects in the playground.

The children vote for which insect they would like to build an insect hotel for.

The pictogram shows the results.

Key:  stands for 2 children

Insect	Number of children
Ladybird	
Wasp	
Bee	
Spider	

How many **more** children chose bee than wasp?

children

How many children are in the **class**?

children

Re-draw the data with a circle standing for **4 children**. What do you notice?

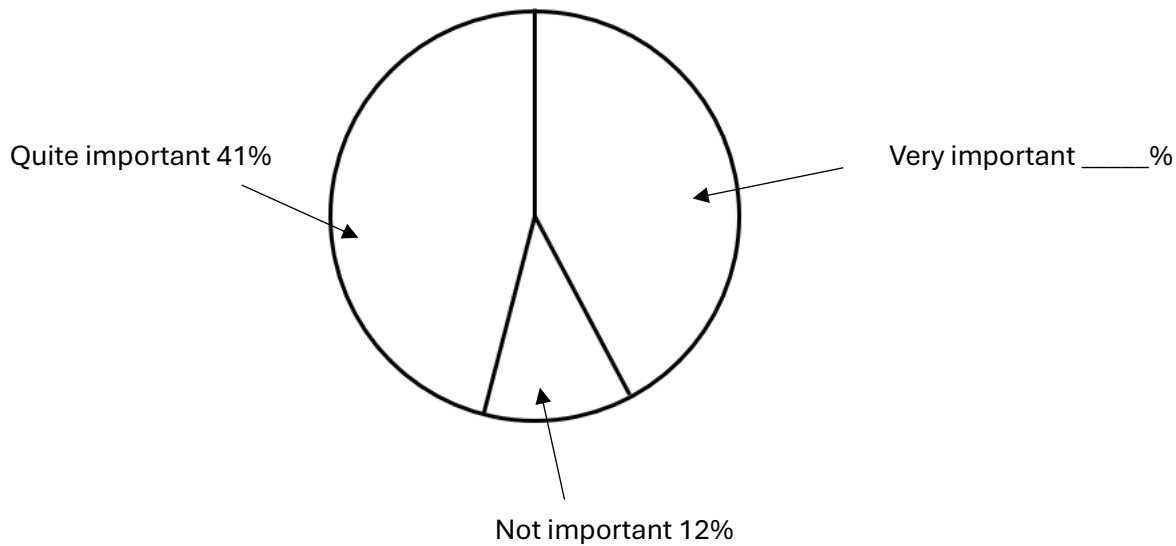
Insect	Number of children
Ladybird	
Wasp	
Bee	
Spider	

7

1,200 pupils were asked this question:

“How important is it to look after the natural world?”

This chart shows the results.



Fill in the **percentage** of students who responded “Very important”

How many **pupils** gave each answer? Show your working.

Quite important \_\_\_\_\_ pupils.

Very important \_\_\_\_\_ pupils.

Not important \_\_\_\_\_ pupils.

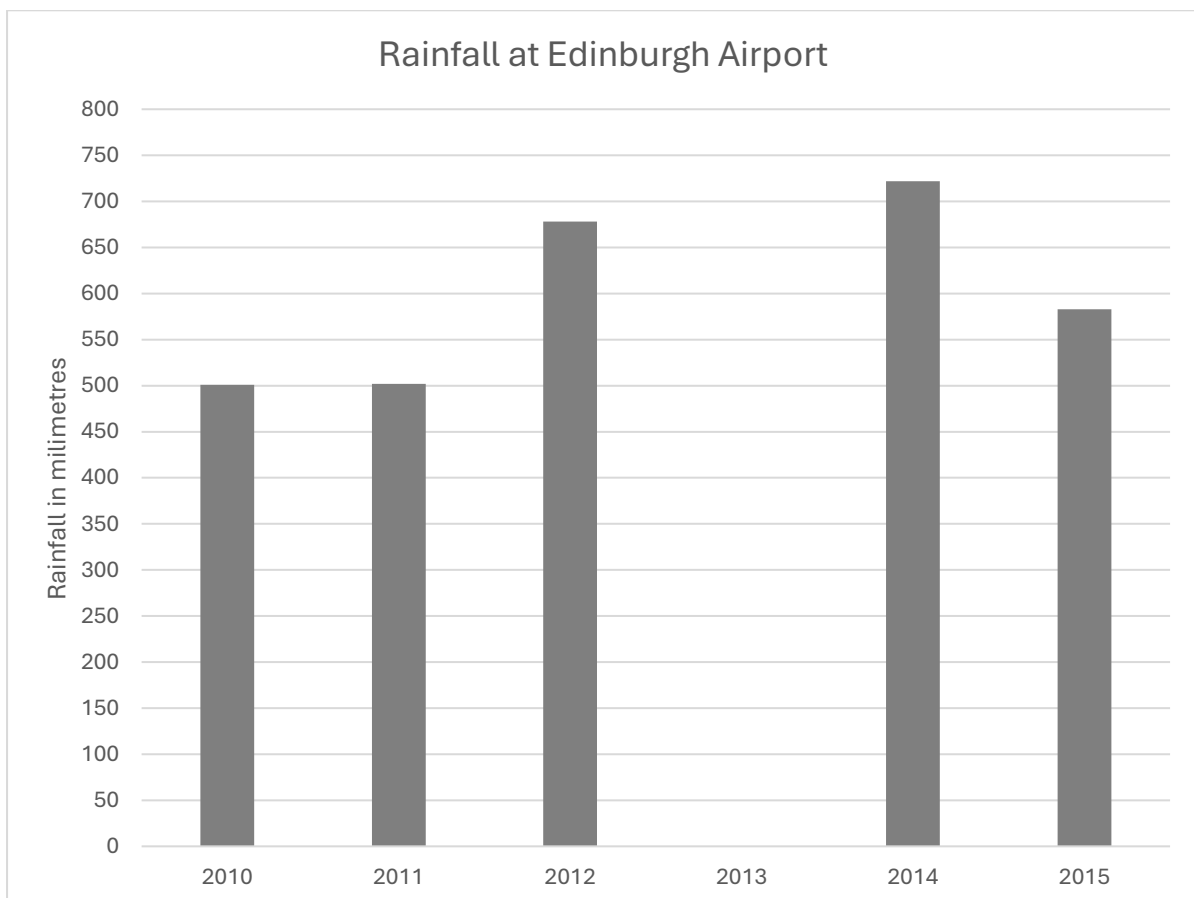
8

This table shows the total rainfall and snowfall each year at Edinburgh Airport from 2010 to 2015.

Year	Rainfall in millimetres	Snowfall in millimetres
2010	501	23
2011	502	26
2012	678	—
2013	476	31
2014	722	44
2015	583	25

Use this table to **complete** the graph.

Use a ruler.



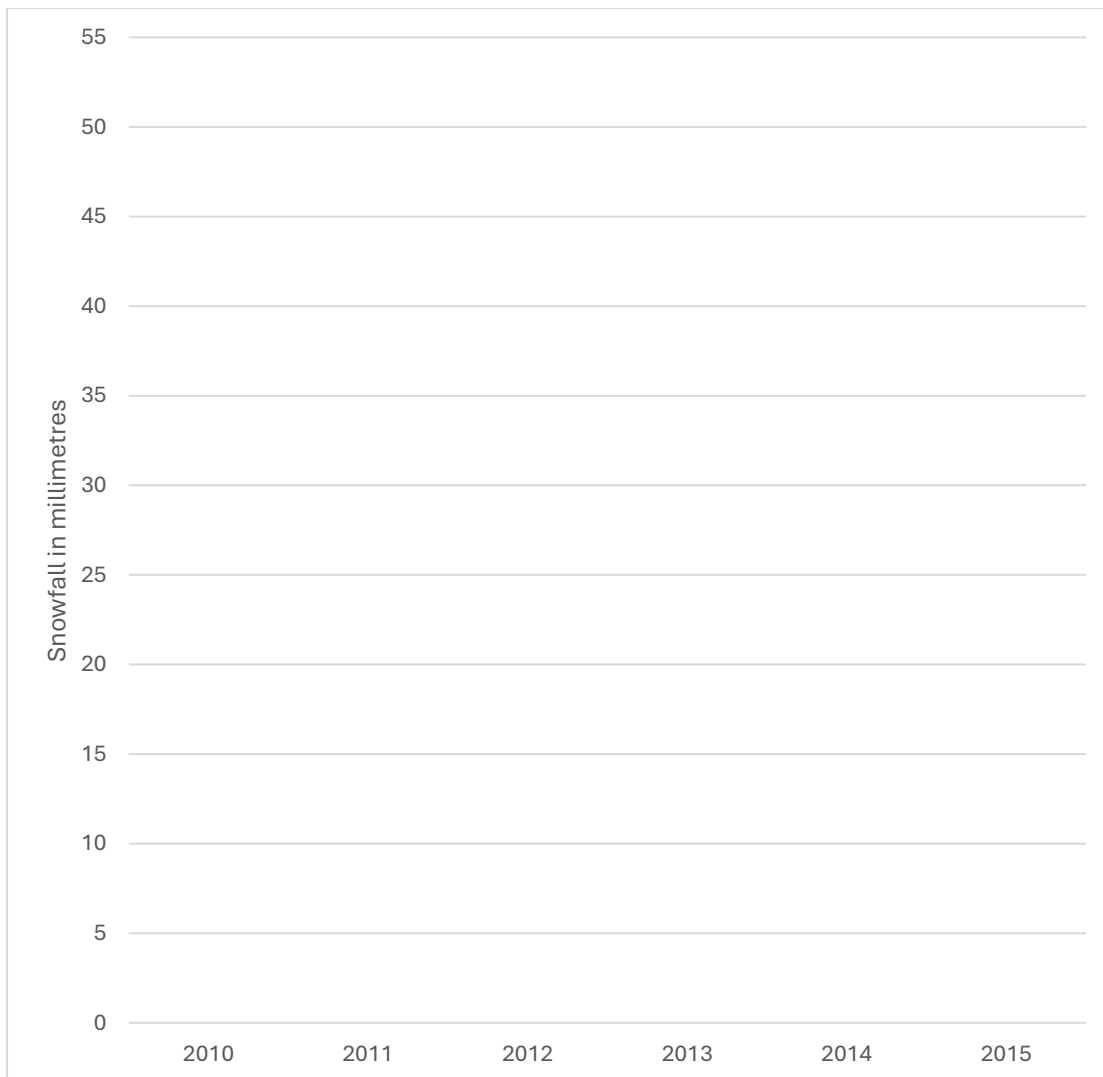
The **mean** annual snowfall over the six years is 28 mm.

How much snow fell in **2012**?

millimetres

Draw a bar chart to represent the **snowfall** over the six years.

Use a ruler.



9

This table shows the amount of rain that fell during a 5-day week.

Day	Rain (mm)	Rounded to nearest whole number (mm)
Monday	3.8	
Tuesday	2.3	
Wednesday	3.2	
Thursday	1.6	
Friday	4.1	

What is the **mean** daily rainfall over the week?

mm

The previous 5-day week, the **mean** rainfall was 4.5 mm.

What was the **total** rainfall for this week?

mm

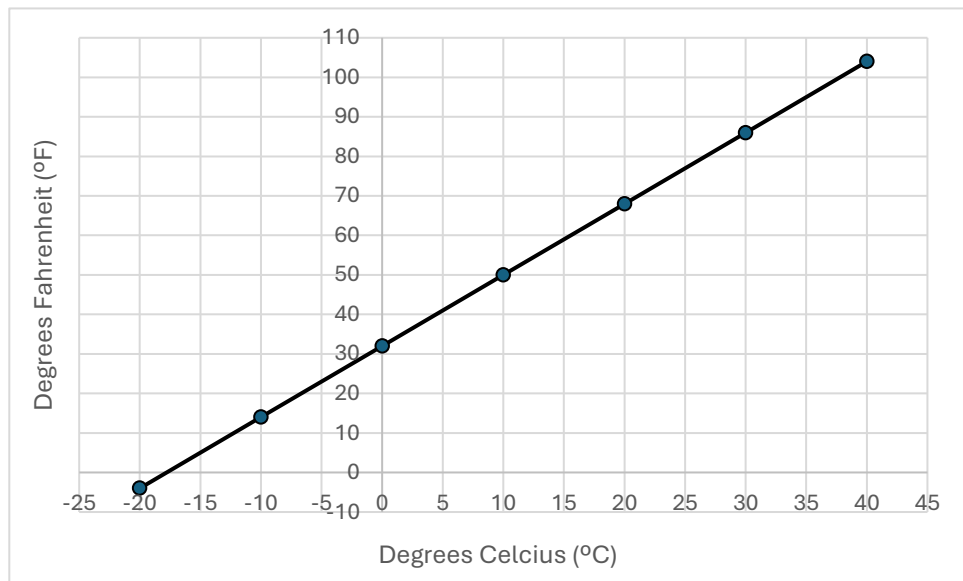
Round each day’s rainfall to the nearest whole number in the **table**.

Does this help you to talk about the rainfall over the week? Explain your answer.

Explain your answer here



This graph helps us to convert between temperatures in degrees Celsius (°C) and degrees Fahrenheit (°F).



Convert the temperatures in this table so that they are in both Celsius (°C) and Fahrenheit (°F).

Maximum temperature (°C)	Maximum temperature (°F)
-12	
15	
30	
	50
	100