

Alexander & Thomas

Hello Nrich I have got a solution to the car that passes:

First of all you have to go to the road to collect data for you to know which car is more likely. We then made two tally charts, one on the colour and one on the manufacturer and worked out which one was the most likely to pass at the end of morning break and the most likely car to pass was a black ford.

Aimee & Emma

We discussed how to complete the task in our lesson and another year group created a table for us to complete for them. During our lesson at 11:10 we walked down to the nearest main road. We were in groups and each group had a different results table. We had to note down things like: car colour, car registration, make and model. We then gathered all the information together and found out that different groups resulted with different things. My partner, Emma, and I found out with our results that the car is most likely to be a blue Nissan.

Nella & Abbie

We prepared what to do in the lessons and we all estimated what car will drive past. We walked down to the school gates and had a clipboard with a piece of paper which had on: type of car, colour, number plate and time. We found all the information we needed and walk back up to school. We made two bar charts from the information and two pie charts from the information. We found that the answer would most likely be a black or silver ford.

Josh & Fraser

We went to the school gate (not at the end of break) and made a tally of cars. We then went back to the classroom and over a period of lessons we found out that we could probably say that the car would be either a black ford or a black vauxhall. we found this out by doing pie charts and bar graphs!

Max P

First of all we were given clipboards in the classroom. Then we walked down to the road where the car would hopefully pass. Each time a car came past we would record certain information, depending on the information questioned on our sheets. eg. Model, Number Plates etc. After about 25 minutes we decided to walk back to the classroom. We then looked at each other's clipboards to decide if each car's information was true. Our solution is that the car that passes at 11am is likely to be a black ford.

Harry

1. Make a useful chart that has the number plate, make of car, colour and age
2. Go to a road that has cars on it and not a road which only 2 cars pass on it
3. Record the things on step one
4. Put your answers in a tally chart
5. On the chart work out how large the tally would be and then draw it on a bar graph or pie chart (we did both)

6. Whichever one has the biggest proportion will be the car that passes on Monday morning.

E.T.

In class we looked at your problem and said we should do a survey to find a predicted answer. First we went out on to the main road near our school. We collected the car information. We looked for the car colour, car manufacturer and the number plate. Once we had collected the information we went back to the classroom and talked about our results. After talking about our results we did a table, bar chart and a pie chart for the colour of the cars and the Manufacturer. After this we decided that the most likely car to pass was a silver Ford.

E.H.

First we went out to the main road to record car information. We looked for the car colour, car manufacturer and the number plate. Then we went back to class to discuss our results. Next we put the information on a bar chart, pie chart and a tally chart. We decided that the most likely car to pass on a Monday morning after break would be a silver Ford.

Will

First we went to the school entrance. Every time a car passed we recorded the make of car, the time and the number plate of the car. We had to make sure that the car actually passed the school entrance. When we had finished recording the cars we tallied them up and used the data to make a pie chart. We predicted that at Monday morning 11am it would be a black ford that is three years old.

Thomas

We walked to the school entrance. We took a piece of paper to write our recordings on. Every time a car passed where we were standing we wrote it down. We recorded the make, number plate and the colour. Some people had different things to write down. When we had finished we walked back to our school classroom. Then we tallied our results up. We then used the data we had collected to make some pie charts. We predicted that the car that passes on Monday would be a black ford at the age of 4 years old.

Maia

First we went to the main road next to our school and took clipboards and pencils/pens to write information like the car colour and the number plates and manufacturer. When we came back we put that information into pie charts and used the information to predict that it will be most likely a silver Ford.

Rebecca

To enable us to answer this question we decided the most logical way to find out was by going down to the road outside our school and doing a survey. We created our own personal spreadsheets to record the data in the most efficient way possible. We also decided the end of break-time was 11:10 am. We recorded the cars from 11:05am and then at 11:10 we recorded the number plate, colour, tyre brand, gender of driver and amount of passengers in that particular car. we found that the car was a Silver Ford Fusion with a female driver and one dog in the boot. When we got back in the classroom we turned this data into a tally

chart and then a pie chart. The Data showed that the most likely car to come past was a Vauxhall Astra.

Evie

In our maths lesson we tried to work out how to answer the question so we sat down and in groups we worked out what problems there would be with the car passing; some of the problems that we talked about were what would we do if there were more than 1 car, what if the car didn't pass at the correct time would we count the closest car or the car that passed after the time etc. But some of our conclusions were quite silly and involved being taken away by aliens and the world ending in the minute before the time. we then decided that the most logical thing to do was make a survey of all the cars that passed. Unfortunately no car passed at 11:10, but a silver ford fusion with a female driver and a dog on the backseat passed at 11:11 so we counted that as our car that passed. After we did our survey we went back to the classroom and made a pie chart to find out what the most likely car to pass was. We found out that it was a ford focus.

Charlie

Before the day we discussed all of the issues. We decided that a lorry, van or car carrier would not count. We also agreed that a stationary car would not count. We created a table with the type of car and the time on it. We needed about 40 boxes. We made a list of all the cars that passed from 11:00 until 11:11. We did the experiment on a Friday and then put the information into a pie chart. We concluded from the information on the chart that the most likely car to pass was a Ford. At the end of our morning break (11:10) a Ford Focus passed the School Front gates.

Matthew

We did the test on the Friday morning just after break outside the school gates, which was 11.10, but we went to the site early. We made a list of cars that travelled past the gates from 11.00 to 11.10. We decided that a lorry or van or car carrier would not count as it says specifically says that it must be a car. We also decided that a standstill car would not count either. We put all the information in to a pie chart. We discovered that there was a lot more Fords than any other car and at 11.10 a black Ford Focus passed the school gates.

Beth

Hello, we went to the school gates to find out about the car that passed the school at the end of Monday break time, but we did it on the Friday so we could predict what car would pass. Then we filled in the graph that we made earlier in the lesson and recorded that the car was black ford it was because the graph we made had the gender hair colour and car wheel pattern.

Etrinoo

Hello Nrich . We did our car experiment on a Friday not a Monday we did a car survey as well but it was hard because we tried finding out the wheel pattern. We did the experiment at the school gates (but that's obvious) we found out that the car that passed at the end of our break (11:10) was a black ford with a female driver who was a lady with grey hair. we did

a pie chart of our survey as well. Most the cars on our survey where black we had a green one a blue one 3 white ones and 3 silver ones. There were lots of different makes, but they was mostly fords. Bubbi Nrich x

Rosie

We did this experiment and found these problems when we discussed it:

- \*No car,
- \*Stationary car,
- \*More than one car,
- \*What time (exactly),
- \*What gate (we have a few),
- \*Should we count a lorry.

We also made sheets for are information, the details were:

- \*Colour
- \*Tyre make
- \*Hair colour of driver
- \*Gender of driver
- \*Pattern on wheels
- \*What time (exactly)
- \*Make
- \*Beard?
- \*Number plate

Ella

We discussed the experiment and found quite a lot of problems:

- \*What gate because we have a couple,
- \*Should we count it if it was stationary?
- \*More than one car,
- \*What time exactly,
- \*Should we count a lorry?
- \*A car transporter (lorry thing),

We wrote down our information on a sheet on a grid, the columns were:

- \*Colour,
- \*Make,
- \*Gender of Driver,
- \*Number Plate,
- \*Whether the driver had hair, facial hair or not,
- \*Tyre make.

The car to pass at 11:10 was a Black Ford.

Ellie

I went out by the road outside the school gates with a data sheet to fill in about the cars that pass in the time that I was out there so I could try and find the solution to the problem. The time was 11:00 when I went and 11:20 when I finished as these times are ten minutes each side of the official end time of our school break, 11:10.

After I got back, I looked at the data I had collected and drew a pie chart of the colour of the cars that passed in the time that I was collecting data. These charts showed me that the probable colour of the car was silver.

I concluded that the colour of the car would be silver because out of the sixteen cars I surveyed, there were six silver ones.

*(She sent in a copy of the sheet used to collect data)*

Alex

We created some spread sheets to record our data on excel, and then on Friday morning, we went down to the school gates before the end of break and with our spread sheets we recorded the colour, model and type of the car. We recorded the first 26 cars that passed the gates before the school bell rung. The car that passed the gates at the right time was a black ford and we had predicted that the car that would pass the school gates would be a black ford.

Josh C

On Friday, we went to the school gates before the end of break time, and took a survey about what cars came past near the end of break-time. We stopped when it was the end of break-time. We then made a tally chart of car colour, car type and car model. We then worked out the average colour, model and make. We found out that, for us, it would probably be a black ford. We also found out that the car that came past nearest to the end of break-time was also a black ford. So, we predicted that a black ford would come past on Monday morning at the end of break-time.

Max M

We did a lot of discussing about the statement and came up with some conclusions about what the statement actually meant. Then we decided that we would do a survey to see what car came past. We made a spreadsheet and printed it off to record our data. We went down to the MAIN school entrance and did a survey on what the cars were that passed. Our end of morning break is at 11:10 am so, when it came to that time we found a car. Unfortunately this test was on Friday. We did this on a Friday, because we wanted to predict what would happen on Monday.

Solution:

The car we had at the end at 11:10 at the main entrance was a black ford with a number plate of F169 RLZ. The type of car we found came passed the most and therefore, the most

likely car to see on Monday is ..... A black Ford believe it or not. We also found later in the classroom was that the most likely model was the ford fiesta.