Do we need to ask Everyone?

In a Census everyone is asked the questions but for most questions only a smaller group or sample is used.

Work in a group (or sample) of 6
Ask the group the following questions. Then from your results predict what you think your whole class will answer.
(Try to use fractions and percentages as well as numbers if you can.)

Do you have a pet ?
Prediction for Class...

Were you born in England?
Group results...
Prediction for Class...

Are you Male?
Group results...
Prediction for Class...

What is your favourite subject at School ?
Group results...
Prediction for Class...

Have you moved house in the last year ?
Group results...
Prediction for Class...

How do you travel to school ?
Group results...
Prediction for Class...

On page 2 are the answers to the questions as given by the pupils in the initial results of CensusAtSchool Are their answers similar to yours or different ?
Do the answers depend on the question asked or on the amount of people asked ?
Discuss

Think up 3 questions that are likely to get the same results in a group of 6 as if a large number of people were asked and 3 questions that will get different results

Results from CensusAtSchool

CensusAtSchool

Question	Responses							
Do you have a pet?	Yes 78%				No 22%			
Were you born in England?	Yes 9/10				No 1/10			
Are you male?	Yes 48%				No 52%			
What is your favourite subject at school?	Art 26%	English 6%	Maths 9%	PE 23%	Technology 7%	Science 5%	History 4%	Other 20%
Have you moved house in the last year?	Yes 12.5%				No 87.5%			
How do you travel to school?	Walk 38%	Car 35%	Bus 22%	Cycle 2%	Train etc 2%	Other 1%		