

You are the Investigator!



We have heard rumours about some strange and interesting trends in your class. You have been asked to analyse your class and report back about anything that you find. After scratching your head for some time, you have decided to use *CensusAtSchool* to research your class more closely.

The *CensusAtSchool* online questionnaires can be found online. Your teacher will have selected the questionnaire to complete and will give you your class's data...what will you find out?

Getting Started

Step 1:

Look at the *CensusAtSchool* questionnaire and data for your class.

Step 2:

Decide on something you would like to find out using this data.

On the detachable slip at the bottom of this page, write your question and the columns of data that you will use. Hand it in today.

Step 3:

Begin the project. Instructions are on the next page.

Detach and hand in

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Name: _____ Class _____ Date _____

Question: _____

Columns of data you will use:

Label _____ Letter _____

Label _____ Letter _____

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The report will consist of 4 pages:

Page 1: Title Page

- Make up an interesting title and also write your question.
- Make the page bright, neat and colourful.

Page 2: The Data

- Highlight the columns of data you are using.
- Create a tally and frequency table. Include the percentages (relative frequencies) in your table as well.

Page 3: The Graphs

Create three different types of graphs to display your data.

There are lots of graphs you can use but you must select the graph that is appropriate for your data. Some examples are:

- a pie chart to show proportion;
- a simple bar chart to show differences;
- a comparison bar chart to compare;
- a pictograph to show differences;
- a histogram is used for continuous data (no gaps) to show the shape of the distribution;
- a scatter diagram is used to see if there is a relationship between two variables (correlation, line of best fit).

Page 4: The Conclusion

In complete sentences, respond to the following questions:

1. Choose one of your graphs and describe it.
2. Which of the 3 graphs do you feel shows your data in the best way and why?
3. Which of the 3 graphs is least effective for presenting your data and why?
4. Explain your choice of intervals for the bar chart or the choice of symbols/pictures on the pictograph.
5. What is the answer to your question? Fully describe how you reached this conclusion.