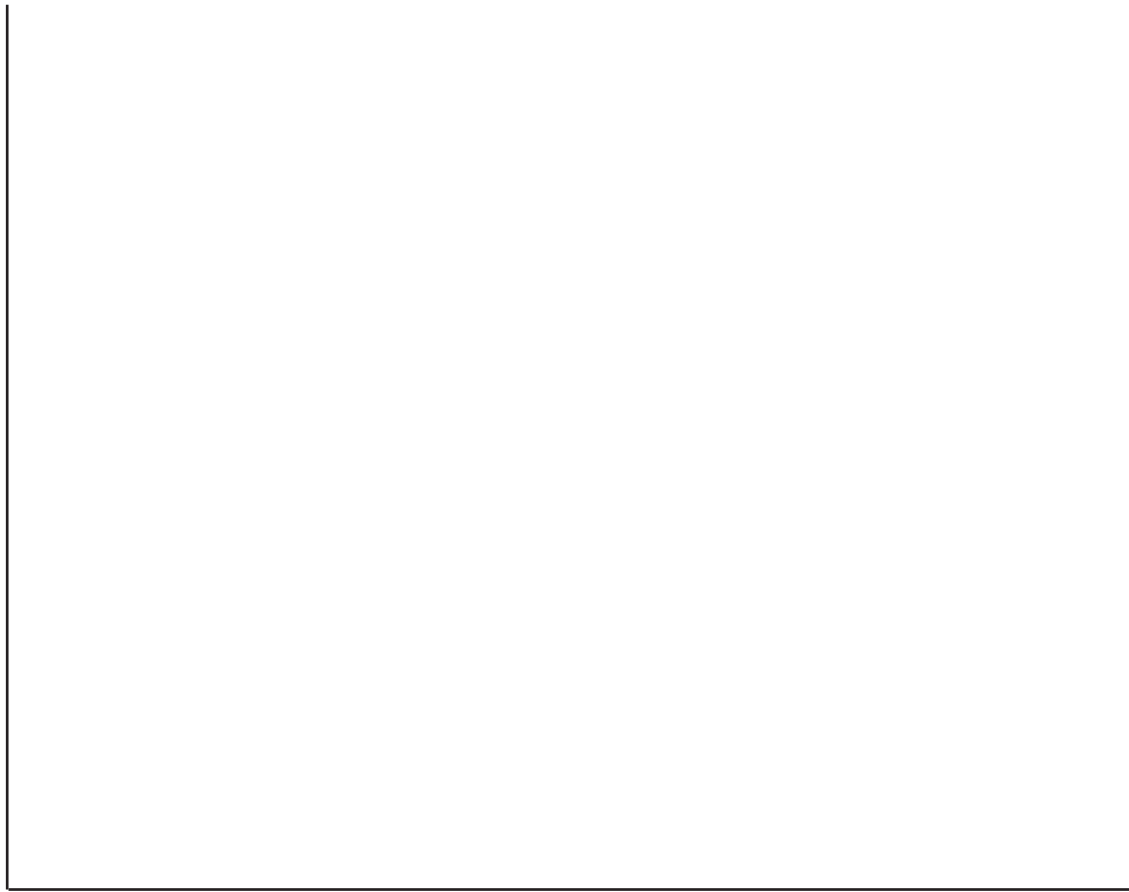


CENSUS OR SAMPLE – DATA COLLECTION

Display your data using a column graph where the species name as the category on the x-axis and the population observed as the frequency on the y-axis.



Which category is most common?

CENSUS OR SAMPLE – DATA COLLECTION

What was the mean population of the species in your area?

Find the 5-figure summary using the population data and create a box-plot.

Are there any possible outliers? Can you explain why/why not?

CENSUS OR SAMPLE – DATA COLLECTION

Now group your data using Plant and Not Plant categories and create a new column graph using these two categories.

Table 2: Plant and Non-Plant

	Total organisms in each category
Plant	
Non-Plant	



Which category was most common?

CENSUS OR SAMPLE – DATA COLLECTION

It is estimated that world wide there are thousands more species of plants than animals.

Do your statistics support this statement? Explain your answer by describing your area in comparison to the entire schoolyard.

We now want to further investigate the Biodiversity Index of you area.

A Biodiversity Index is a measure of the health of an ecosystem. Calculate the Biodiversity Index of your area using the formula:

$$\text{BIODIVERSITY INDEX} = \frac{\text{TOTAL NUMBER OF SPECIES}}{\text{TOTAL NUMBER OF ORGANISMS}}$$

The Biodiversity Index of my area is:

Note: This will be an estimate as to calculate the exact Biodiversity Index you need to count EVERY living thing!

Do you think this is an accurate representation of the biodiversity of the entire school? Why/Why not?