Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_

Graphing Data & Analysis

Add up the data the class collected. Realize that some students are represented more than once if they have more than one type of animal.

|  |  |  |
| --- | --- | --- |
| **Kinds of Pet(s) owned by students** | **Male Students** | **Female Students** |
| **Dog** |  |  |
| **Cat** |  |  |
| **Fish** |  |  |
| **Bird** |  |  |
| **Reptile** |  |  |
| **Horse** |  |  |
| **Rodent** |  |  |
| **Other Pets** |  |  |
| **No Pets** |  |  |

1. Using the above information, make two **pie charts**, one for Male Students and their pets, then a separate for female students and their pets. Make sure to label and color your pie chart. Include Key for each animal and the correct percentage.

Male students & their pets Female students & their pets

KEY

2. For the following data use your best guess on the data to fill out the **line graph** on the back of the page. Use the data provided to complete your graph. Make two separate lines on one graph on the back and make sure to create a key and color code each so I can tell the difference between each one. Label both axes and give your graph a title! ☺

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| Day | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| # of dogs that visited the vet | 5 | 7 | 13 | 13 | 9 | 8 | 10 | 9 | 4 | 12 | 3 | 1 |
| # of cats that visited the vet | 8 | 11 | 2 | 5 | 12 | 12 | 5 | 3 | 8 | 9 | 11 | 5 |

Looking at your data, will your line increase, decrease, stay the same, or bounce around?

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Which one is your Independent Variable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Which one is your Dependent Variable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How did you decide which one was Independent and which one was dependent?

3. Now you will make a **bar graph** using the data the class collected below. You’ll need to make a key and color code for male students and female students, so I can see the differences in the two bar graphs. You’ll place both sets of data on the same graph. Make sure to label both axes and title your graph.

|  |  |  |
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| **How many Siblings do You have?** | **Male Students** | **Female Students** |
| **None – 0** |  |  |
| **One -1** |  |  |
| **Two- 2** |  |  |
| **Three – 3** |  |  |
| **Four - 4** |  |  |
| **Five – 5** |  |  |
| **Six or more – 6+** |  |  |

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Which one is your Independent Variable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Which one is your Dependent Variable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_