Stacking Cups:

Group Members:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Question:

How Many Styrofoam cups will you need to stack to reach the top of Mr. G’s head?

Hypothesis:

I think it will take \_\_\_\_\_\_\_\_\_\_\_\_\_ cups.

Data/ Results:

Mr. G’s Height in cm is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The independent variable(x) is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_The dependent variable (y) is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Your group needs to have the following:* Sketch of problem, Table, Graph and an equation in slope intercept form.

|  |  |
| --- | --- |
| Cups | height (cm) |
|  |  |
|  |  |
|  |  |

Sketch: Table (label it)

Graph:

Is the situation a discrete or continuous function? How do you know?

Label your axis and plot your data



Equation:

Y= mx+ b

Conclusion/ Reflection:

Using the data above, our group decided to use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cups.

What was the hardest part in determining the amount of cups?

If Mr. G was 200cm tall how many cups would you need?