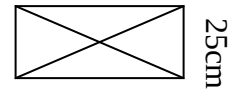
Name:_____

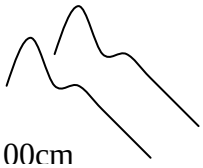
The Final Parachute

"The Competition"

Materials Needed:

a) Two 100 cm pieces of string, one washer





b) Cut a 50 cm × 25 cm rectangle from your new material

c) Cut two 100 cm lengths of string.

d) Tie one side of each string to neighboring corners of the rectangle.

e) Place both strings through the washer.

- **Tie the free ends of each string to the diagonal corner of the rectangle, so that the strings cross to form an "X".**

Now that we changed the variable, what do you think will happen?

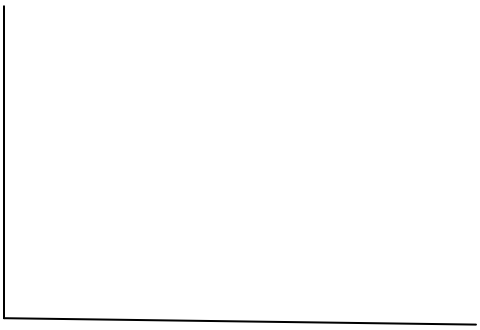
The New Parachute Data

Time to Fall				Straightness (How will you measure this?)			
Parachute	**Trial 1**	**Trial 2**	**Trial 3**	**Parachute**	**Trial 1**	**Trial 2**	**Trial 3**
A				**A**			
B				**B**			

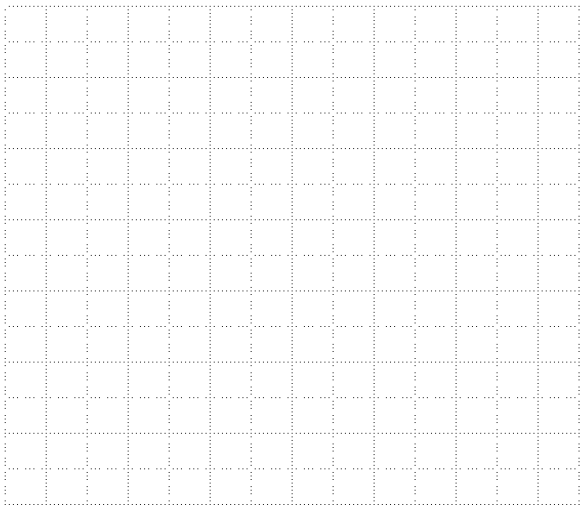
Graphing our Data:

We can graph to see results. Below are to different ways we can graph the information we collected today.

A Bar Graph:



Plotting Points:
Graph paper



Controlling Variables:

What are variables?

How did we control them?

Another word for controlling variables is called the independent variables or the constant variables. What variables did we hold constant every time we dropped the parachute?

What variable did not we hold constant?

The variables that we do not hold constant are called dependent variables. These variables we would not be able to find if we did not have the independent variables.

Summarize your finding:

1. **We studied how the time of flight changed with _____.**

2. **We varied _____ and held _____, _____, and _____ constant.**

3. **We found that as _____ increased, the time of flight increased/decreased.**

After the Experiment……

1. **What happened?**

2. **Can you try to explain why this happened?**

3. **What did you learn from the experiment?**

4. **If you could do the experiment again, would you change it? If yes, explain how you would change it.**