**Today’s Objective:**

Determine how drinking juice can relate to our study of linear relationships

Today, we will be conducting an experiment to help us review our study of linear relationships. In this experiment, we will be drinking juice and recording how much juice is in your cup after each sip. Each group will have 3 members, and each member will have a specific role:

**Juice Sipper:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* *This group member will be responsible for drinking the juice in* ***six*** *sips. The goal is to make each sip as equal as possible.*

**Juice Measurer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

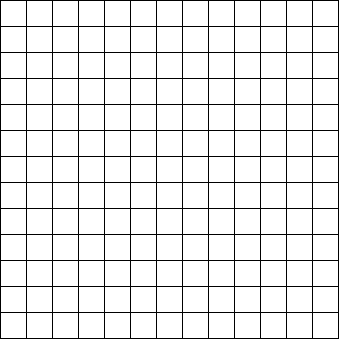
* *This group member will be responsible for measuring how high the juice in the cup is after each sip. Remember we are using* ***centimeters****.*

**Height Recorder: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* *This group member will be responsible for recording the Juice Measurer’s juice height in the data table after each sip.*

Each cup will start with 7.2 cm of juice. This height will represent Sip #0, as you will not have any juice yet. Record the height of the juice as you conduct your experiment in the data table below.

|  |  |
| --- | --- |
| **Sip Number** | **Height of the Beverage (cm.)** |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&docid=xMj0ZJ1IsKYcQM&tbnid=Nor0A_Qgbq9ZBM:&ved=0CAUQjRw&url=http://puzzles.about.com/library/grids/qblank13.htm&ei=aN6BUcSKIeTv0QHzkoGQDA&bvm=bv.45921128,d.dmQ&psig=AFQjCNHoWLgwDdd8SFnMj47uscC-JSijDA&ust=1367551960319788)

**Questions:**

1. What is significant about the spot where your line hits…
2. The **y-axis**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. The **x-axis**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. About how much did your juice height decrease after each sip? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How much would the juice height have to decrease after each sip in order to form a **linear relationship**?