NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**That’s Huge! An Exploration of Size and Scale (Part 1)**

PROBLEM:

* How many sugar cubes would it take to fill the classroom?
* How large would a container need to be to hold 1 billion sugar cubes?

PREDICTION:

I predict this room will hold \_\_\_\_\_\_\_\_\_\_\_ sugar cubes.

I predict the container would have to be \_\_\_\_\_\_\_\_\_\_\_\_\_\_ in size to hold 1 billion sugar cubes.

MATERIALS:

* Sugar cube
* Meter Stick

DIRECTIONS:

In your groups, determine how many sugar cubes would fit in the classroom. (Hint: volume of a rectangle = length x width x height) Show all work and label all information below.

Determine how many rooms you would need to hold 1 billion sugar cubes. Show all work below.

**That’s Huge! An Exploration of Size and Scale (Part 2)**

PROBLEM:

* How long would it take to count from 1 to 1,000,000,000 (1 billion)?

PREDICTION:

I predict it would take \_\_\_\_\_\_\_\_\_\_\_ to count to 1 billion.

MATERIALS:

* Timer or stopwatch

DIRECTIONS:

In your groups, determine how long it would take to count from 1 to 1 billion. Show all work and label all information below. *(hint: Think about how to do this without actually counting to 1 Billion)*