

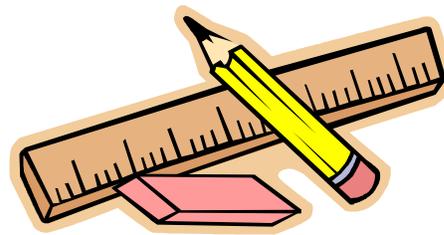
Tipping Point

Name _____

Materials: Ruler and 10 pennies.

Directions:

1. Place the ruler on the edge of your desk with the end marked 0 extending over the edge of the desk. You will be reading in centimeters.
2. Place one penny on the end of the ruler extending over the desk.
3. Use your pencil to gently push the ruler toward the end of the desk until it starts to tip.
4. Record the length the ruler extends over the edge at the tipping point.
5. Repeat the process using from 2 through 10 pennies.



Pennies	Length tipping point
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

6. Enter the data into the calculator. Pennies in L_1 and length in L_2 .
7. Prepare a scatter plot of the data and indicate the shape of the plot in the box below.

8. Which regression model does the data appear to represent? _____
9. Is there any evidence to support your choice of regression model besides the graph?

10. Determine the correlation coefficient for your model. _____
11. What does the correlation coefficient tell you about your regression model?
