

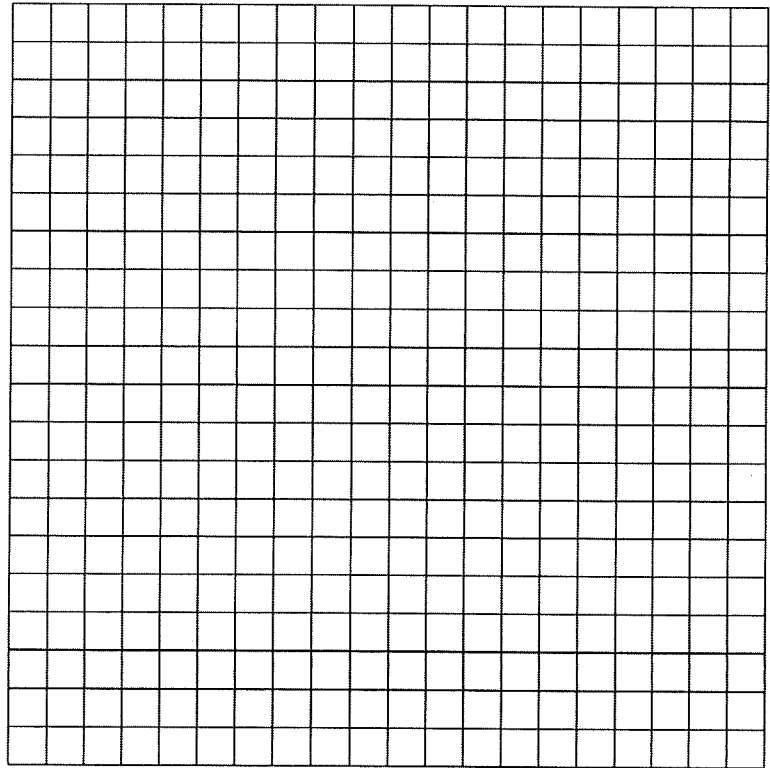
Name \_\_\_\_\_

### Application - Blanket Folding Lab

Measure the thickness of a thick blanket (a yoga mat works even better) after the specified number of folds. Hint – the Mythbuster episode on this topic is really cool!

Folds	Thickness
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Create a detailed Graph of the height based on folds



### Questions

1. What type of function best represents this data set and why?
2. Use your calculator to calculate the Regression Equation for the ordered pairs.
3. Describe the strength of the relationship (Correlation)
4. Use this equation to estimate the value of y if  $x = 20$ ,  $x = 5$ ,  $x = 10$
5. Use this equation to estimate the value of x if  $y = 2$ ,  $y = 4$ ,  $y = 12$