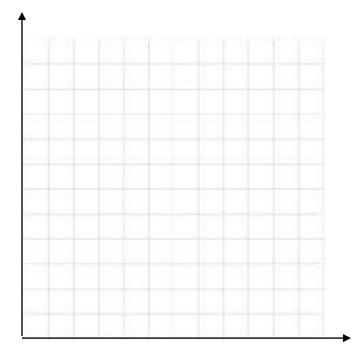
TWMM Problem 1.1

Bridge-Thickness Experiment

Group 1 Results	Thickness (layers)	1	2	3	4	5	6
	Breaking Weight (# of pennies)	9	16	24	34	42	
Group 2 Results	Thickness (layers)	1	2	3	4	5	6
							<u> </u>
	Breaking Weight (# of pennies)	8	16	24	32	40	
		1					1
Group 3 Results	Thickness (layers)	1	2	3	4	5	6
	Breaking Weight (# of pennies)	8	18	26	30	44	
	breaking weight (# of permiss)	ð	10	20	50	44	



Use the coordinate grid above. Graph each group's results in a different color. Then use the data and the graph to answer the following questions. Make sure to write your answers in complete sentences.

- 1. Does the relationship between bridge thickness and breaking weight seem to be linear or nonlinear? How is this shown in the table? How is this shown in the graph?
- 2. For each of the groups above, predict the breaking point for a bridge 6 layers thick. Add your predictions to the tables above. Explain how you determined your predictions.