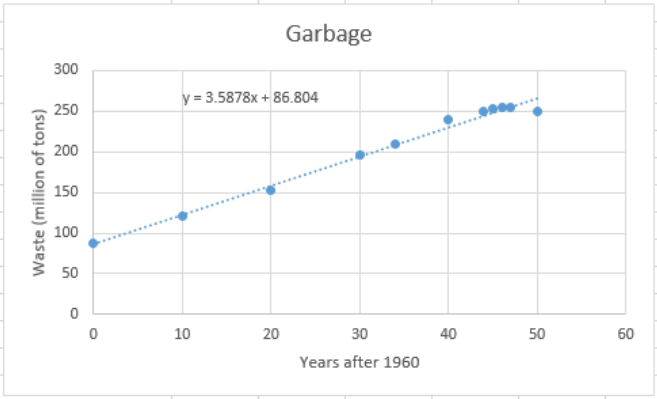
Activity 4

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Year	1960	1970	1980	1990	1994	2000	2004	2005	2006	2007	2010	
2	Years after 1960	0	10	20	30	34	40	44	45	46	47	50	
3	Waste(million of tons)	88	121	152	197	209	239	250	253	254	255	250	



4. Rate of change should be about 3.6 million tons per year

5. The horizontal intercept would be the solution to 0=3.6x+86 or x=-24 meaning in 1936 there would be no garbage. This is basically meaningless. The model breaks down.

6. a) In 2010 we would have 3.6*50+86= 266 million tons.
b) Not particularly close. People seem to be reducing waste either by using less or recycling. Perhaps the population is also growing at a slower rate?
c) In 2020 we would have 3.6*60 +86= 302 million tons of garbage. We reduction in waste, I don't think this is an accurate prediction.