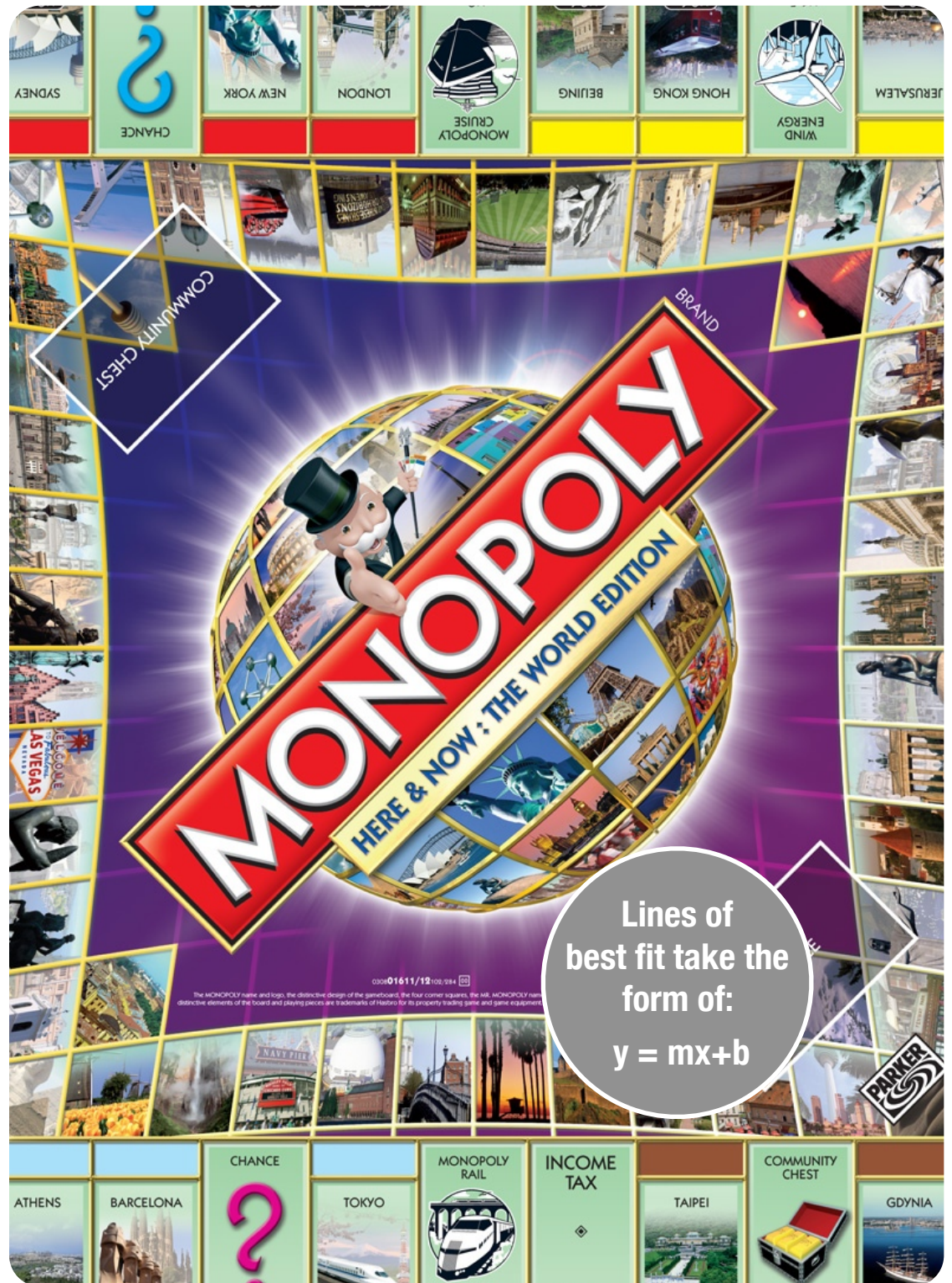


Correlation

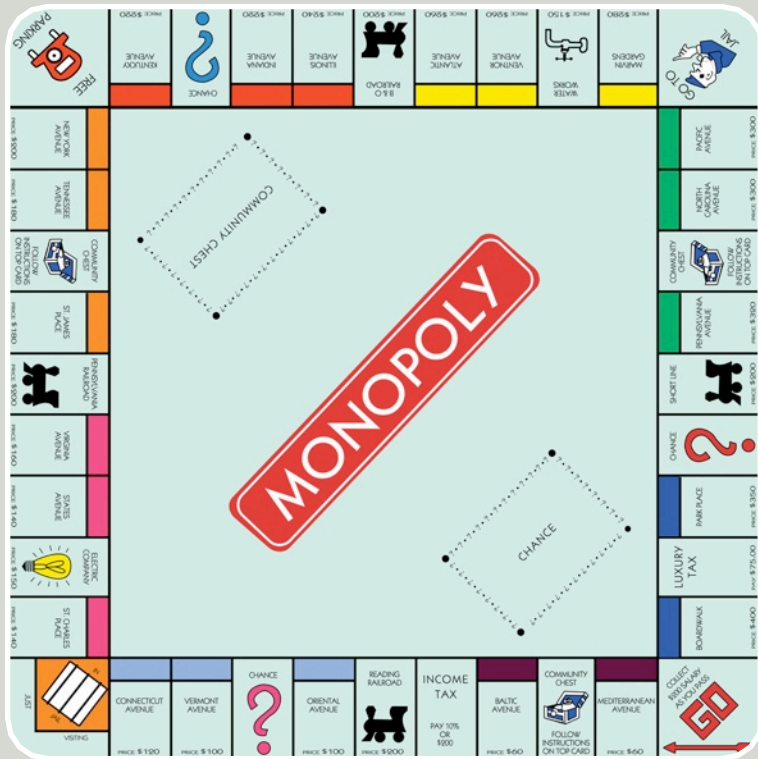
SPACES VS. COST



IS THERE AN ASSOCIATION BETWEEN SPACES AND PROPERTY COST?

We will investigate the property costs vs. the number of spaces from go each property lies. Create a scatter plot on the large post-it notes and answer the following questions.

1. Does there appear to be an association between the two variables?
2. Find a line of best fit.
3. What does b and m represent?
4. Are there any unusual points?
5. Predict the cost of a new property 50 spaces from go.



Scatter Plot tips:
 Make sure that you plot the x-variable as the spaces and the y-variable as the cost.
 Don't connect the dots; look at the over all pattern.



Below are the properties, their spaces from go, and their price.

PROPERTY	SPACES	COST	PROPERTY	SPACES	COST
Mediterranean Ave	1	\$60	Kentucky Ave	21	\$220
Baltic Ave	3	\$60	Indiana Ave	23	\$220
Reading Railroad	5	\$200	Illinois Ave	24	\$240
Oriental Ave	6	\$100	B & O Railroad	25	\$200
Vermont Ave	8	\$100	Atlantic Ave	26	\$260
Connecticut Ave	9	\$120	Ventnor Ave	27	\$260
St. Charles Place	11	\$140	Waterworks	28	\$150
Electric Company	12	\$150	Marvin Gardens	29	\$280
States Ave	13	\$140	Pacific Ave	31	\$300
Virginia Ave	14	\$160	N. Carolina Ave	32	\$300
Penn Railroad	15	\$200	Pennsylvania Ave	34	\$320
St. James Place	16	\$180	Short Line RR	35	\$200
Tennessee Ave	18	\$180	Park Place	37	\$350
New York Ave	19	\$200	Boardwalk	39	\$400