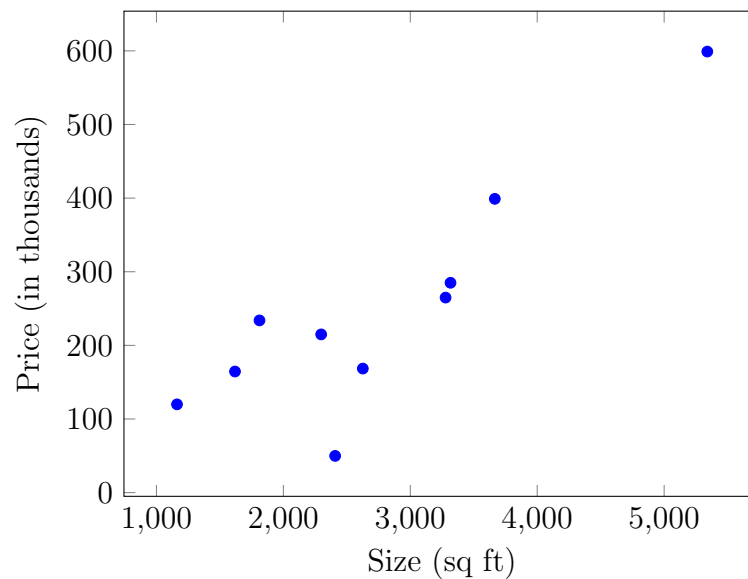


Scatterplots

Math 111

1. The following table reports the price and size (in square feet) of a sample of houses listed for sale in Farmville, VA on Zillow.com.

Address	Price (\$)	Size (sq ft)	Address	Price (\$)	Size (sq ft)
1745 Winky St.	264,900	3278	1960 Buckingham St.	168,500	2626
1600 Cumberland Rd.	285,000	3317	237 Schoolhouse Rd.	164,500	1619
155 Glen Carson Rd.	49,900	2408	41 Stockton Rd.	233,900	1812
104 Beverly Ct.	214,900	2298	131 Seven Eleven Rd.	119,900	1162
199 Suzanne Dr.	399,000	3666	201 Smith Dr.	599,000	5340

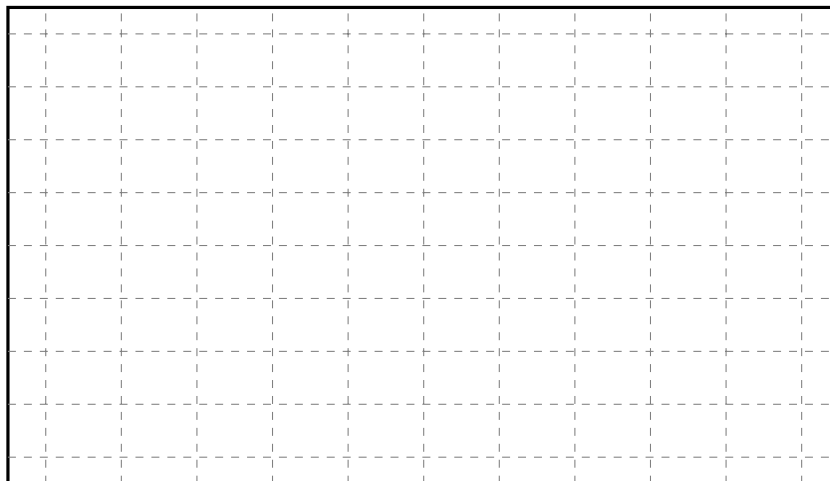


- (a) What is the address of the house represented by the point in the top right of the graph?
- (b) Circle the point corresponding to the house at 41 Stockton Rd.
- (c) What are the two variables shown in the scatterplot?
- (d) Describe in one sentence the relationship between the two variables.

2. The following table shows the average monthly temperatures for Raleigh, NC and San Francisco, CA.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Raleigh	39	42	50	59	67	74	78	77	71	60	51	43
San Francisco	49	52	53	56	58	62	63	64	65	61	55	49

- (a) Use the box below to make a scatterplot below showing the association between temperatures in the two cities. Clearly label the x and y axes.



- (b) What is the cause of the association between the two variables above?
- (c) Add the line $y = x$ to the graph above. What do the points above the line represent? What about the points that are below the line?