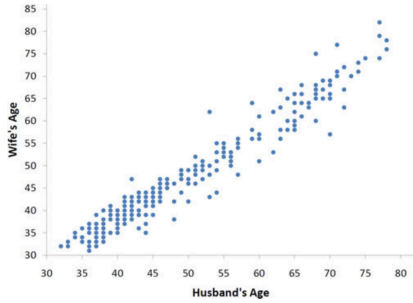
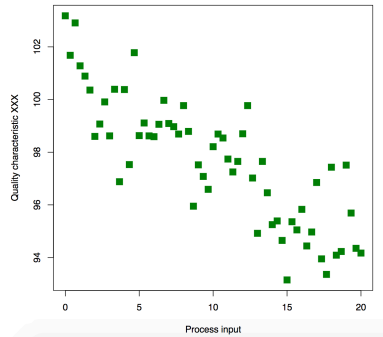


1. Draw the best fitting line through the data on each scatterplot.

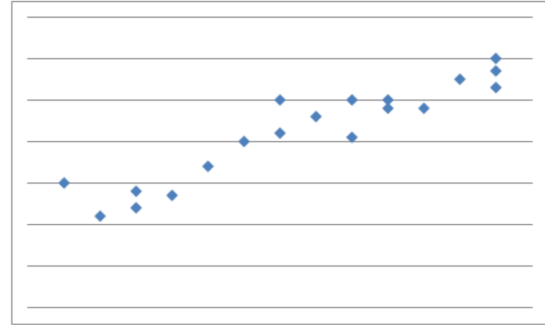
a.



h.



c.



3. The table shows the income for an employee over his first 8 years of work. Use linear regression on this data to predict his income for his 15th year of work.

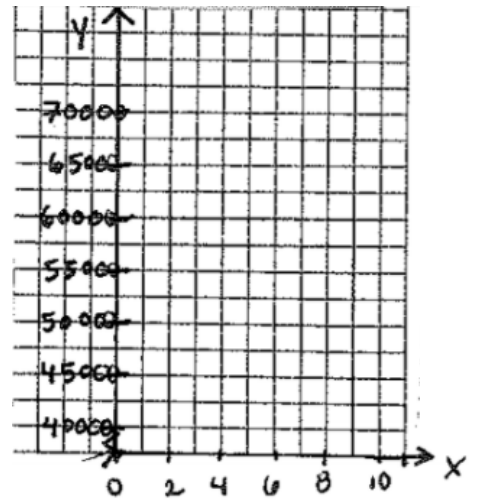
Years	1	2	3	4	5	6	7	8
Income	45,000	46,814	48,212	52,870	54,125	58,532	61,075	62,785

- a. Make a scatter plot of the data on graph at right.
- b. Draw a best-fitting line through the data.
- c. Choose 2 points *that lie on your best-fitting line*.

Point #1 _____

Point #2 _____

d. Write the equation of the best-fitting line using your 2 points.



e. Use you equation to predict the income in the 15th year.



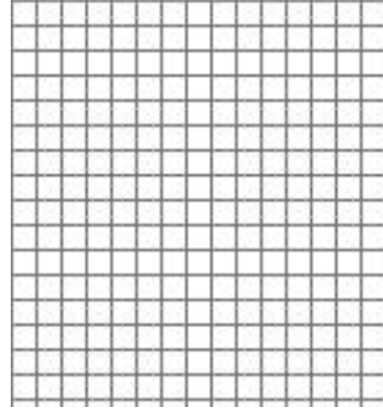
4. A convenience store manager notices that sales of soft drinks are higher on hotter days. She assembles the data in the table. Use your best-fitting equation to predict the number of cans of soda that will be sold when the temperature is 78°

a. Make a scatter plot of the data on graph at right & draw best-fit line.

b. Choose 2 points *that lie on your best-fitting line*.

Point #1 _____

Point #2 _____



High Temperature (°F)	Number of cans sold
55	340
58	335
64	410
68	460
70	450
75	610
80	735
84	780

c. Write the equation of the best-fitting line using your 2 points.

d. Use you equation to predict the number of cans sold at 78°.