1 Ice Cream Sales and Temperature

An ice cream stand opened for the season in June. For each of the first ten days, the daily high temperature in °F was recorded with the daily sales in dollars.

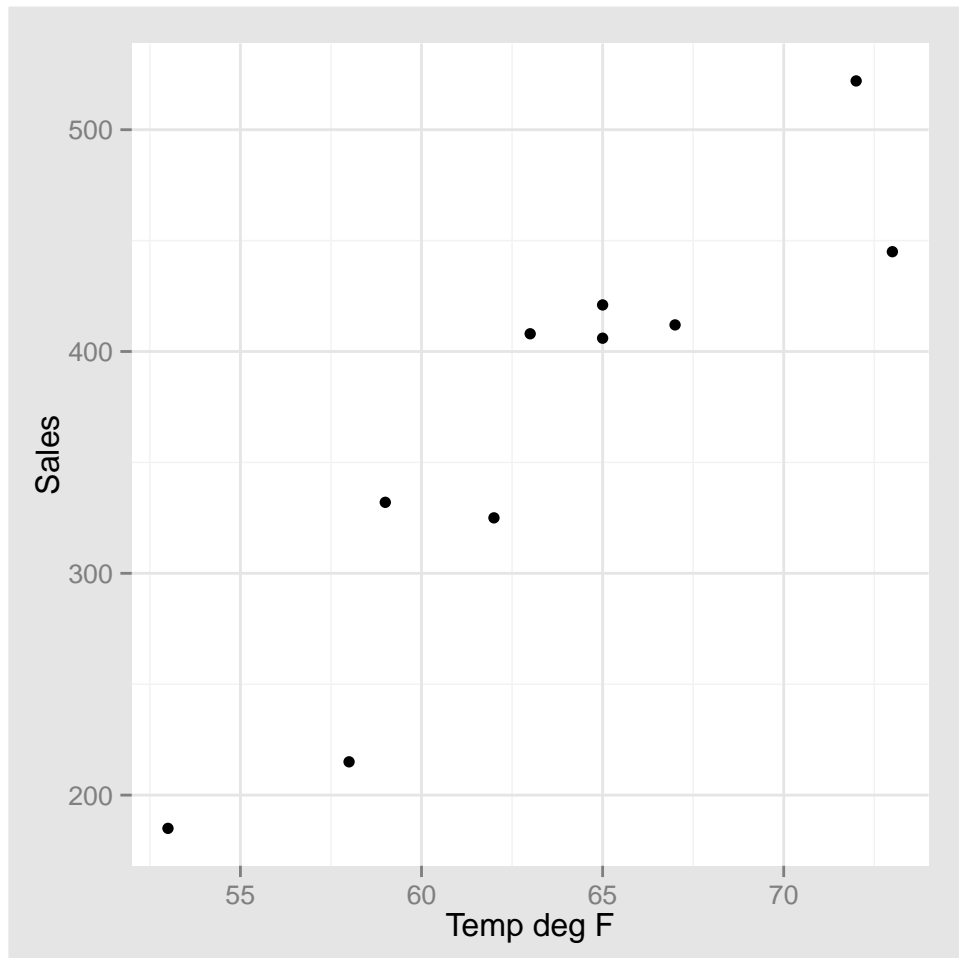|	Temp deg F	Sales	$Dev_{\bar{x}}$	$Dev_{\bar{y}}$	$(Dev_{\bar{x}})^2$	$(Dev_{\bar{y}})^2$	$Dev_{\bar{x}}Dev_{\bar{y}}$
3	53	185	-182.00	-10.70	33124.00	114.50	1947.40
1	58	215	-152.00	-5.70	23104.00	32.50	866.40
4	59	332	-35.00	-4.70	1225.00	22.10	164.50
2	62	325	-42.00	-1.70	1764.00	2.90	71.40
12	63	408	41.00	-0.70	1681.00	0.50	-28.70
5	65	406	39.00	1.30	1521.00	1.70	50.70
10	65	421	54.00	1.30	2916.00	1.70	70.20
7	67	412	45.00	3.30	2025.00	10.90	148.50
6	72	522	155.00	8.30	24025.00	68.90	1286.50
11	73	445	78.00	9.30	6084.00	86.50	725.40
Total	3671.0	637.0	0.0	0.0	97469.0	342.2	5302.3
		Total/N	$Var(X) =$	$Var(Y) =$	$Cov(X, Y) =$		
		StdDev					

Table 1:

Figure 1: Green regression line with prediction error, as noted in red on the chart