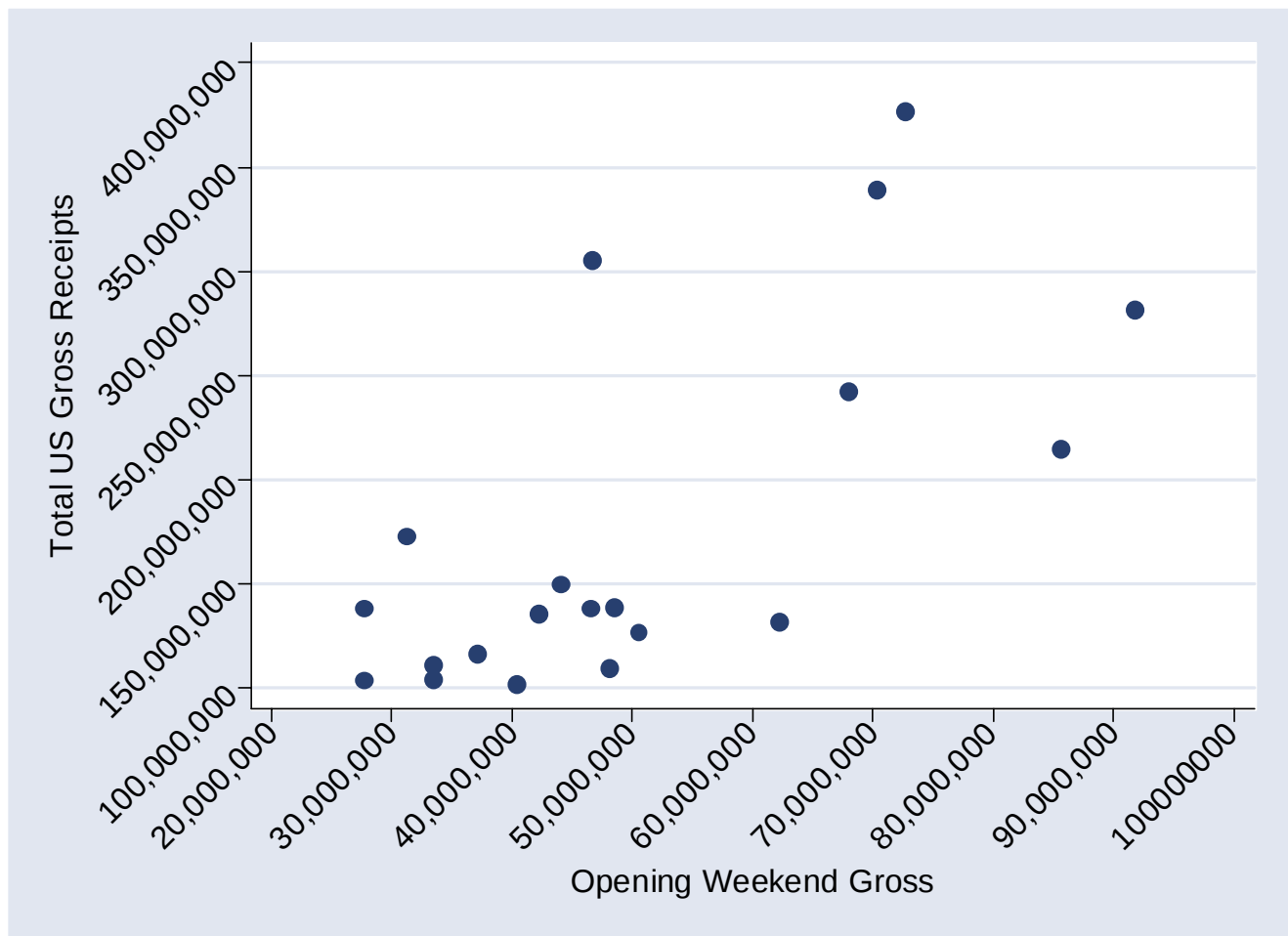




r (the correlation) between these two variables is .68

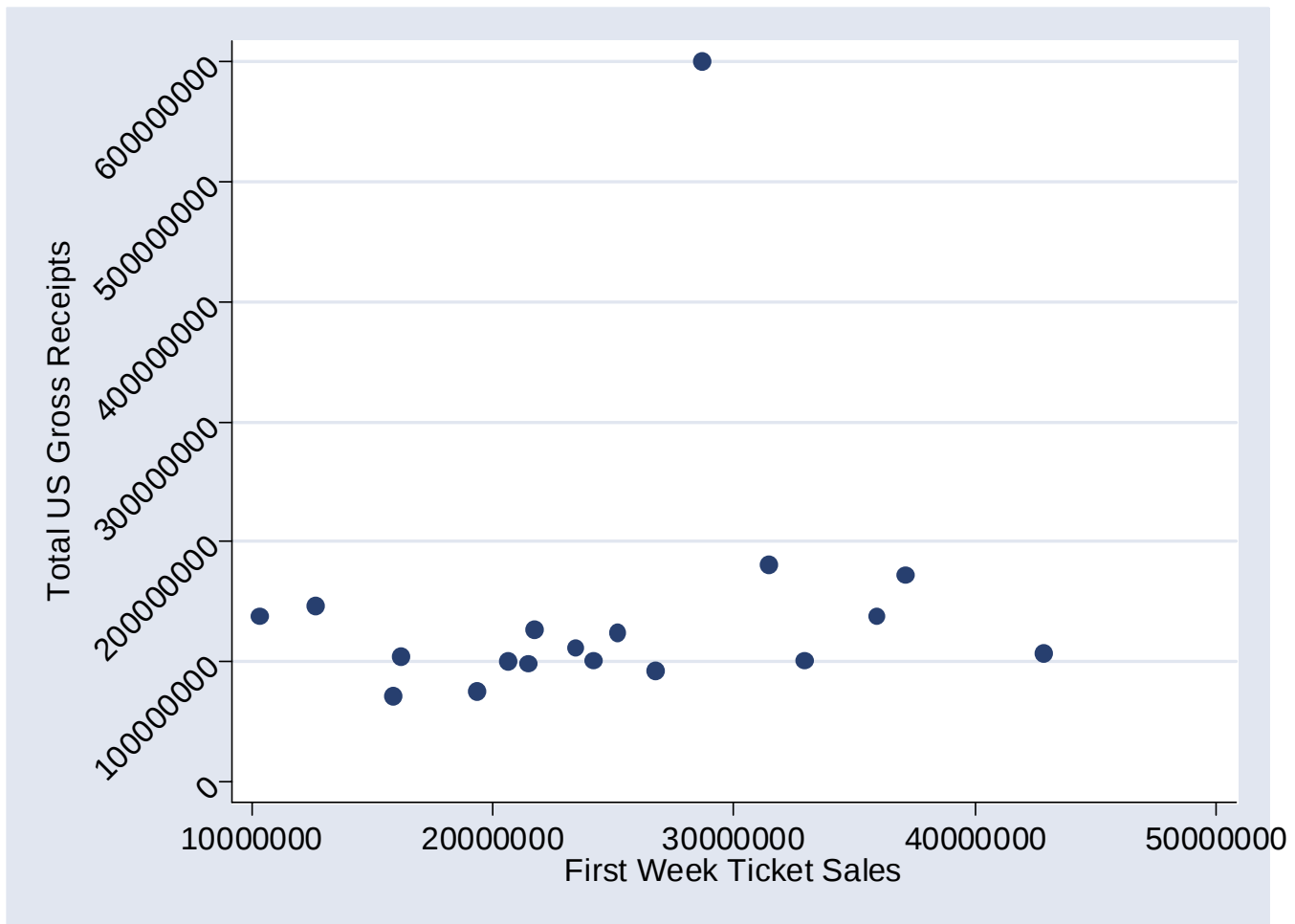
The means and standard deviations are

Variable	Obs	Mean	Std. Dev.	Min	Max
-----+-----					
totusgross	20	177342928	85658496	102543518	377027325
weekend1	20	50361404	18775706	27557647	91774413

The regression equation is:

total US gross receipts = (3.1023 *first weekend ticket sales) + 21,106,744

The movie “Titanic” is the outlier here. When it is part of the dataset, $r = .17$, if it were to be removed, $r = .29$



A residual is just equal to (actual Y value – predicted Y value)

	title	totusgross	weekend1	predicted	residual
1.	The Lord of the Rings: The Return of the King	377,027,325	72,629,713	246,425,903	130,601,422
2.	Finding Nemo	339,714,978	70,251,710	239,048,624	100,666,354
3.	Pirates of the Caribbean	305,413,918	46,630,690	165,769,134	139,644,784
4.	The Matrix Reloaded	281,576,461	91,774,413	305,818,505	-24,242,044
5.	Bruce Almighty	242,829,261	67,953,330	231,918,360	10,910,901
6.	X2: X-Men United	214,949,694	85,558,731	286,535,595	-71,585,901
7.	Elf	173,398,518	31,113,501	117,630,158	55,768,360
8.	Terminator 3: Rise of the Machines	150,371,112	44,041,440	157,736,503	-7,365,391
9.	The Matrix Revolutions	139,270,910	48,475,154	171,491,214	-32,220,304
10.	Cheaper by the Dozen	138,614,544	27,557,647	106,598,832	32,015,712
11.	Bad Boys II	138,608,444	46,522,560	165,433,682	-26,825,238
12.	Anger Management	135,645,823	42,220,847	152,088,478	-16,442,655
13.	Hulk	132,177,234	62,128,420	213,847,741	-81,670,507
14.	2 Fast 2 Furious	127,154,901	50,472,480	177,687,519	-50,532,618
15.	S.W.A.T.	116,934,650	37,062,535	136,085,846	-19,151,196
16.	Spy Kids 3D: Game Over	111,761,982	33,417,739	124,778,596	-13,016,614
17.	Scary Movie 3	110,003,217	48,113,770	170,370,093	-60,366,876
18.	American Wedding	104,565,114	33,369,440	124,628,758	-20,063,644
19.	Daddy Day Care	104,297,061	27,623,580	106,803,376	-2,506,315
20.	Daredevil	102,543,518	40,310,419	146,161,757	-43,618,239