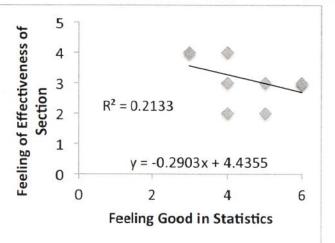
	X	Υ								
		Feeling of								
	Feeling Good	effectiveness			For cov(x,y)					
	in Statistics	of Section	x-xmean	y-ymean	(x-xmean)*(y-ymean)	yhat	y-yhat	(y-hat)^2	y-ymean	(y-ymean)^2
1	6	3				2.69	0.31	0.09	-0.10	0.01
2	4	4				3.27	0.73	0.53	0.90	0.81
3	6	3			T .	2.69	0.31	0.09	-0.10	0.01
4	3	4				3.56	0.44	0.19	0.90	0.81
5	5	2				2.98	-0.98	0.97	-1.10	1.21
6	3	4				3.56	0.44	0.19	0.90	0.81
7	4	2				3.27	-1.27	1.62	-1.10	1.21
8	6	3				2.69	0.31	0.09	-0.10	0.01
9	4	3				3.27	-0.27	0.08	-0.10	0.01
10	5	3				2.98	0.02	0.00	-0.10	0.01

mean	4.60	3.10	
Sd	1.17	0.74	

sum (x-xmean)*(y-ymean)= cov(x,y)= sum (y-yhat)^2 =
sum (y-ymean)^2 =
R square =
hint:



b = a =

Pythagorean theorem $a^2 = b^2 + c^2$

Questions to address

- 1. How to calculate correlation and regression by hand?
- 2. What is the relationship between correlation and regression? when there is only one predictor vs. when there are more than one
- 3. What is the difference between B and beta?
- 4. Why R square represents the variance that x could count for y?
- 5. Why do you we use least square error, but not least absolution deviation?

Benefit of		nd independent		Benefit of		_
attending section	People with M.A.	People without M.A.	12	attending	Without M.A.?	
	5			JCCCIOII .		0
	5	8				0
	4	5			1	0
	5	7		r		0
	4	5			1	0
	3	4		3	3	0
				8	3	1
mean	4.333333333	6.166666667		8	3	1
sd	0.816496581	1.722401424		5	;	1
t	2.355941153	df = 10		7	,	1
р	0.040230871			5	;	1
Cohen's d	1.360203259			4	Į.	1
r	0.597437991					
				r	0.59743799	1

Point-biseri	al correlation an	d one sample t	-tests		
	Final grades	grades-90	duplicate	split half	dummy code
	92	2	2	1.5	0
	88	-2	-2	-2.5	0
	89	-1	-1	-1.5	0
	90	0	0	-0.5	0
	89	-1	-1	-1.5	0
	95	5	5	4.5	0
different from 90?			2	2.5	1
			-2	-1.5	1
mean	90.5	0.5	-1	-0.5	1
sd	2.588435821		0	0.5	1
t	0.473160223	df = 5	-1	-0.5	1
p	0.775405079		5	5.5	1
Cohen's d	0.193166852		-		
r	0.207019668			r	0.207019668