* Please name your homework file as 'Assignment9_Your name.pdf' in <u>pdf</u> format and send it at <u>biostat_sjtu@163.com</u>, thanks for your cooperation.

 A new fertilizer has been developed to increase the yield on crops, and the makers of the fertilizer want to better understand which of the three formulations (blends) of this fertilizer are most effective for wheat, corn, soy beans and rice (crops). They test each of the three blends on five samples of each of the four types of crops. Run an F-test to test the effect of fertilizer and crops.

	Crop					
Fertilizer	Wheat	Corn	Soy	Rice		
Blend X	123	128	166	151		
	156	150	178	125		
	112	174	187	117		
	100	116	153	155		
	168	109	195	158		
Blend Y	135	175	140	167		
	130	132	145	183		
	176	120	159	142		
	120	187	131	167		
	155	184	126	168		
Blend Z	156	186	185	175		
	180	138	206	173		
	147	178	188	154		
	146	176	165	191		
_	193	190	188	169		

2. Run an F-test to test the effect of teaching method on the students' scores.

Subject	Teaching Method			
	1	2	3	
GT	40	32	30	
	36	29	35	
	38	36	33	
Regular	24	20	18	
	21	29	26	
	20	25	26	
Special Ed.	22	20	18	
	18	18	14	
	16	19	19	