

## Chapter 3 - Two-Way ANOVA

- 3.1 – [3 pts]

1. test chamber
2. melting rate
3. temperature, salt
4. 3,2
5. 6
6. 6

- 3.2 – [12 pts]

1. table below

Source	df	SS	MS	F	p
Among	3	1510.2	503.4	2.58	0.0580
Instructor	1	114.0	114.0	0.58	0.4482
Method	1	1363.5	1363.5	6.99	0.0096
Instructor*Method	1	32.78	32.78	0.17	0.6810
Within	96	18717.11	195.0		
Total	99	20227.3			

Means							
Instructor	Lecture	Self	Total	SSins	113.96		
A	75.45	83.98	79.72	SSmeth	1363.46		
B	74.46	80.70	77.58	SSint	1510.19		
Total	74.96	82.34	78.65				
Residuals from grand mean				Squared residuals from grand mean			
Instructor	Lecture	Self	Total	Instructor	Lecture	Self	Total
A	-3.20	5.33	1.07	A	10.22	28.44	1.14
B	-4.19	2.05	-1.07	B	17.54	4.21	1.14
Total	-3.69	3.69	0.00	Total	13.63	13.63	0.00

- 3.3 – [3 pts]

1. NO interaction, Factor 1, Factor 2
2. NO interaction, Factor 1, NO Factor 2
3. Interaction (should not comment on main effects)