

**CLASS EXERCISE PART 2**  
**Xbar & R Control Chart - Class Exercise**

Sub Group	6:00	10:00	14:00	18:00	22:00	Xbar	R
1	7	24	24	20	25	20.0	18
2	17	37	28	16	26	24.8	21
3	12	22	40	36	34	28.8	28
4	52	35	29	36	24	35.2	28
5	28	28	34	29	48	33.4	20
6	39	27	48	32	25	34.2	23
7	36	21	31	22	28	27.6	15
8	5	33	15	26	42	24.2	37
9	50	34	37	27	34	36.4	23
10	21	17	20	25	16	19.8	9
11	34	18	29	43	24	29.6	25
12	18	35	26	23	17	23.8	18
13	10	28	19	26	21	20.8	18
14	21	23	35	28	38	29.0	17
15	27	41	15	22	23	25.6	26
16	37	19	39	21	38	30.8	20
17	37	46	22	26	25	31.2	24
18	13	32	35	56	45	36.2	43
19	9	51	25	37	39	32.2	42
20	14	27	34	37	52	32.8	38
21	30	30	24	44	48	35.2	24
22	54	64	32	32	42	44.8	32
23	45	8	58	65	33	41.8	57
24	19	38	37	50	37	36.2	17
25	25	64	38	47	49	44.6	26

**X =**            779.00            649.0

**X =**            31.16            25.96

Data

UCL            46.14  
 CL             31.16  
 LCL            16.18

Range

UCL            54.91  
 CL             25.96  
 LCL            none