

435 HW 2

Treatment 1:

Survival Time	Survival	Failure	# Failed	# Survived
0	1.00	0.00	0	22
2	$(1 - \frac{1}{22}) \times 1.00$	$1 - 0.95 =$	1	21
	0.95	0.05		
6	$(1 - \frac{1}{21}) \times 0.95 =$	$1 - 0.91 =$	2	20
	0.91	0.09		
12	$(1 - \frac{1}{20}) \times 0.91 =$	$1 - 0.86 =$	3	19
	0.86	0.14		
54	$(1 - \frac{1}{19}) \times 0.86 =$	$1 - 0.82 =$	4	18
	0.82	0.18		
56*	0.82	0.18	4	17
68	$(1 - \frac{1}{17}) \times 0.82 =$	$1 - 0.77 =$	5	16
	0.77	0.23		
89	$(1 - \frac{1}{16}) \times 0.77 =$	$1 - 0.72 =$	6	15
	0.72	0.28		
96	$(1 - \frac{1}{15}) \times 0.72 =$	$1 - 0.63 =$	8	13
	0.63	0.37		
125*	0.63	0.37	8	12
128*	0.63	0.37	8	11
131*	0.63	0.37	8	10
140*	0.63	0.37	8	9
141*	0.63	0.37	8	8
143	$(1 - \frac{1}{8}) \times 0.63 =$	$1 - 0.55 =$	9	7
	0.55	0.45		
145*	0.55	0.45	9	6
146	$(1 - \frac{1}{6}) \times 0.55 =$	$1 - 0.46 =$	10	5
	0.46	0.54		
148*	0.46	0.54	10	4
162*	0.46	0.54	10	3
168	$(1 - \frac{1}{3}) \times 0.46 =$	$1 - 0.30 =$	11	2
	0.30	0.70		
173*	0.30	0.70	11	1
181*	0.30	0.70	11	0

Treatment Z:

Survival Time	Survival	Failure	# Failed	# survived
0	1.00	0.00	0	22
2	$(1 - \frac{1}{22}) \times 1.00 = 0.95$	$(1 - 0.95) = 0.05$	1	21
3	$(1 - \frac{1}{21}) \times 0.95 = 0.91$	$(1 - 0.91) = 0.09$	2	20
4	$(1 - \frac{1}{20}) \times 0.91 = 0.86$	$(1 - 0.86) = 0.14$	3	19
7	$(1 - \frac{1}{19}) \times 0.86 = 0.82$	$(1 - 0.82) = 0.18$	4	18
10	$(1 - \frac{1}{18}) \times 0.82 = 0.77$	$(1 - 0.77) = 0.23$	5	17
22	$(1 - \frac{1}{17}) \times 0.77 = 0.73$	$(1 - 0.73) = 0.27$	6	16
28	$(1 - \frac{1}{16}) \times 0.73 = 0.68$	$(1 - 0.68) = 0.32$	7	15
29	$(1 - \frac{1}{15}) \times 0.68 = 0.64$	$(1 - 0.64) = 0.36$	8	14
32	$(1 - \frac{1}{14}) \times 0.64 = 0.59$	$(1 - 0.59) = 0.41$	9	13
37	$(1 - \frac{1}{13}) \times 0.59 = 0.55$	$(1 - 0.55) = 0.45$	10	12
40	$(1 - \frac{1}{12}) \times 0.55 = 0.50$	$(1 - 0.50) = 0.50$	11	11
41	$(1 - \frac{1}{11}) \times 0.50 = 0.45$	$(1 - 0.45) = 0.55$	12	10
54	$(1 - \frac{1}{10}) \times 0.45 = 0.41$	$(1 - 0.41) = 0.59$	13	9
61	$(1 - \frac{1}{9}) \times 0.41 = 0.36$	$(1 - 0.36) = 0.64$	14	8
63	$(1 - \frac{1}{8}) \times 0.36 = 0.32$	$(1 - 0.32) = 0.68$	15	7
71	$(1 - \frac{1}{7}) \times 0.32 = 0.27$	$(1 - 0.27) = 0.73$	16	6
127*	0.27	0.73	16	5
140*	0.27	0.73	16	4
146*	0.27	0.73	16	3
158*	0.27	0.73	16	2
167*	0.27	0.73	16	1
182*	0.27	0.73	16	0