1 Problem

Table 1.1: Tableau

Z	x1		3	c2	Т	x3	Т	x4	Т	S1		S2	Т	S3	Τ	S4	Τ	A1	Т	A2		АЗ	Т	A4	Т	RHS	Т	BasicSolution	minratio
1	-8M -	16	-	36		8M-64	1	-18M - 324	T	M		0	-	M	-	0		0	-	0		0		0		0		Z = 0	minratio
0	4		-	-6	Τ	0	Τ	0	I	0	-	0	Τ	0	1	0	Ι	1	Τ	0		0	T	0		0	Τ	A1 = 0	minratio
0	0			6	1	-8	1	0	-	0	-	0	-	0	-	0	-	0	-	1	-	0	-	0	Τ	0	Τ	A2 = 0	minratio
0	4			0		0		0	-	-1		0		0		0		0		0		1		0		2		A3 = 2	minratio
0	4			0	Τ	0	Τ	0	I	0		1	Τ	0		0	-	0	I	0		0		0		10	Τ	S2 = 10	minratio
0	0			0	Ī	0	Ī	(18)	Ī	0	Ī	0	Ī	-1	Ī	0	Ī	0	Ī	0	Ī	0	Ī	1	Ī	2	Ī	A4 = 2	minratio
0	0			0	1	0	Ī	18	Ī	0	Ī	0	Ī	0	Ī	1	Ī	0	Ī	0	Ī	0		0		10	Ī	S4 = 10	minratio

Descriptive statistics of your k=4 independent treatments:

Treatment \rightarrow	AC1	AC2	AC3	AC4	Pooled To
observations N	101	101	101	101	404
sum $\sum x_i$	961.4854	1,117.2210	650.8736	4,131.0253	6,860.605
mean \overline{x}	9.5197	11.0616	6.4443	40.9012	16.9817
sum of squares $\sum x_i^2$	9,195.8574	12,393.0952	4,201.5039	169,963.7484	195,754.2
sample variance s^2	0.4285	0.3485	0.0708	9.9969	196.6489
sample std. dev. s	0.6546	0.5903	0.2662	3.1618	14.0232
std. dev. of mean $SE_{\overline{x}}$	0.0651	0.0587	0.0265	0.3146	0.6977

Tukey HSD results

TreatmentsPair	Tukey HSD Q statistic	Tukey HSD p-value	Tukey HSD inferfence
AC1 vs AC2	9.4113	0.0010053	** p<0.01
AC1 vs AC3	18.7706	0.0010053	** p<0.01
AC1 vs AC4	191.5389	0.0010053	** p<0.01
AC2 vs AC3	28.1819	0.0010053	** p<0.01
AC2 vs AC4	182.1276	0.0010053	** p<0.01
AC3 vs AC4	210.3095	0.0010053	** p<0.01