

1. (a) The randomization matrix for treatments A and B along with the means and mean difference for each of the 20 unique possible designs

	1	2	3	4	5	6	MeanA	MeanB	MeanDiff
Yield	3	5	4	2	7	4	0.00	0.00	0.00
Design 1	A	B	B	A	B	A	3.00	5.33	-2.33
Design 2	A	B	B	A	A	B	4.00	4.33	-0.33
Design 3	A	B	A	B	A	B	4.67	3.67	1.00
Design 4	A	A	B	B	A	B	5.00	3.33	1.67
Design 5	A	A	B	B	B	A	4.00	4.33	-0.33
Design 6	A	B	A	B	B	A	3.67	4.67	-1.00
Design 7	A	B	B	B	A	A	4.67	3.67	1.00
Design 8	B	A	B	B	A	A	5.33	3.00	2.33
Design 9	B	A	B	A	B	A	3.67	4.67	-1.00
Design 10	B	A	A	B	B	A	4.33	4.00	0.33
Design 11	B	A	A	B	A	B	5.33	3.00	2.33
Design 12	B	A	B	A	A	B	4.67	3.67	1.00
Design 13	A	B	A	A	B	B	3.00	5.33	-2.33
Design 14	A	A	B	A	B	B	3.33	5.00	-1.67
Design 15	A	A	A	B	B	B	4.00	4.33	-0.33
Design 16	B	A	A	A	B	B	3.67	4.67	-1.00
Design 17	B	B	A	A	B	A	3.33	5.00	-1.67
Design 18	B	B	A	B	A	A	5.00	3.33	1.67
Design 19	B	B	A	A	A	B	4.33	4.00	0.33
Design 20	B	B	B	A	A	A	4.33	4.00	0.33

Table 1: Randomization Matrix