

*Example 1*

Steel wire was made by four manufacturers A, B, C and D. In order to compare their products ten samples were randomly drawn from a batch of wire made by each manufacturer and the strength of each piece of wire was measured. The (coded) values are given overleaf and are plotted in Figure D.2 in Appendix D.4 as box plots.

	A	B	C	D
	55	70	70	90
	50	80	60	115
	80	85	65	80
	60	105	75	70
	70	65	90	95
	75	100	40	100
	40	90	95	105
	45	95	70	90
	80	100	65	100
	70	70	75	60
Total	625	860	705	905
Mean	62.5	86.0	70.5	90.5
Variance	212.5	204.4	235.8	274.7

$T = 3095$      $\bar{x} = 77.4$

*Example 2*

In order to compare three burners,  $B_1$ ,  $B_2$  and  $B_3$ , one observation is made on each burner on each of four successive days. The data is tabulated below.

	$B_1$	$B_2$	$B_3$	Row total	Row average
Day 1 (Block 1)	21	23	24	68	22.67
Day 2 (Block 2)	18	17	23	58	19.33
Day 3 (Block 3)	18	21	20	59	19.67
Day 4 (Block 4)	17	20	22	59	19.67
Column total	74	81	89		
Column average	18.50	20.25	22.25		