

A study has been conducted to compare four types of corn that a farmer is considering for use in his field. All are comparable in price, so she would like to choose the type which gives her the highest yield. One of her fields is divided into 12 sections, and each is randomly assigned a type of corn, with each type being planted on three of the plots. For each the yield is measured. The table that follows gives the data for this example.

Variety	Yield		
A	65	64	60
B	55	56	63
C	56	59	59
D	62	59	62

The following data are from a study of the effect of ethanol on the sleep patterns of rats. A sample of 20 rats who were matched for age and other characteristics and given an oral injection of the determined dose of ethanol per body weight. The rapid eye movement sleep for each rat was recorded for a 24-hour period.

Treatment					
0 (Control)	88.6	73.2	91.4	68.0	75.2
1 g/kg	63.0	53.9	69.2	50.1	71.5
2 g/kg	44.9	59.5	40.2	56.3	38.7
4 g/kg	31.0	39.6	45.3	25.2	22.7