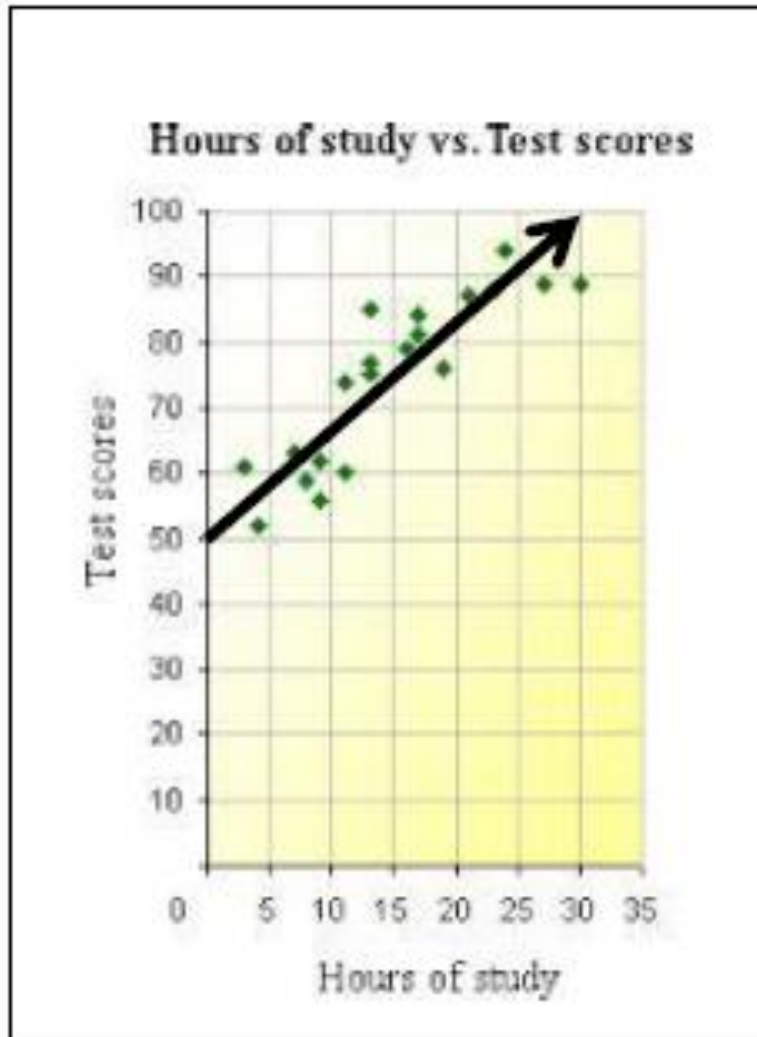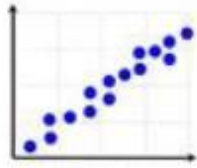# Notes

Topic 01: Scatter Plots

The graph above is a scatter plot.

The basic idea is that **real world data** is put on a graph. As you can see, there is a general relationship you can observe from the x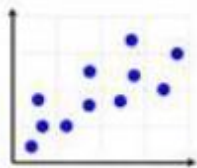-axis (hours of study) and the y-axis (test scores). The relationship predicts that the more you study, the higher test score you will earn.

The line is a **line of best fit**, which is drawn to summarize all the data. The line, like all lines, can be understood in the y-intercept form: $y = mx + b$
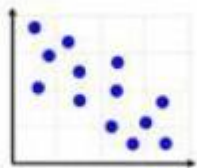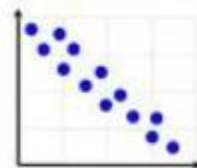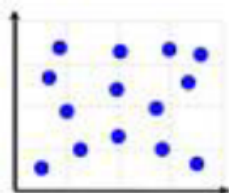
Notes

Positive association, strong correlation

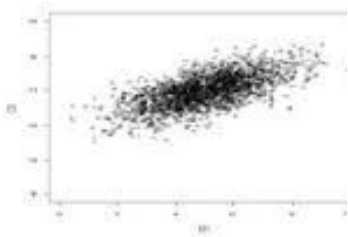Positive association, weak correlation
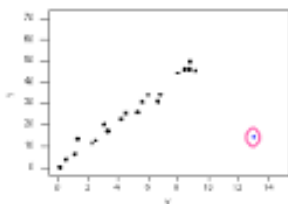
Negative association, weak correlation

Negative association, strong correlation

No association

Clustering

Outlier