

Assessing Normality

Colby Community College

Definition

A **normal quantile plot** (or **normal probability plot**) is a graph of points (x, y) where:

- each x value is from the original set of sample data
- each y value is the corresponding z score that is expected from the standard normal distribution.

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- 3 Use technology to generate a normal quantile plot.

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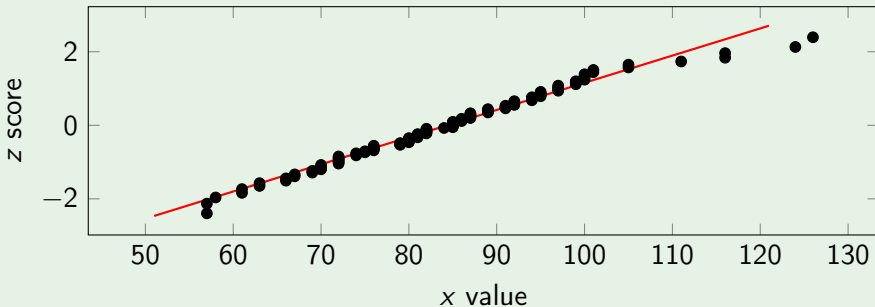
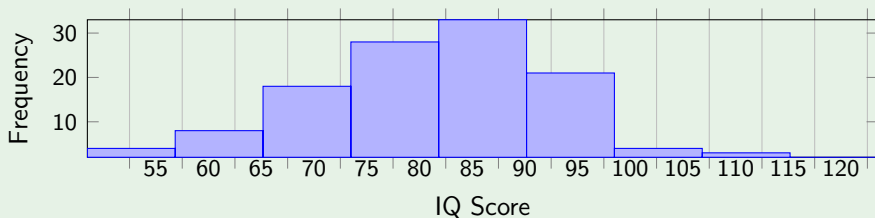
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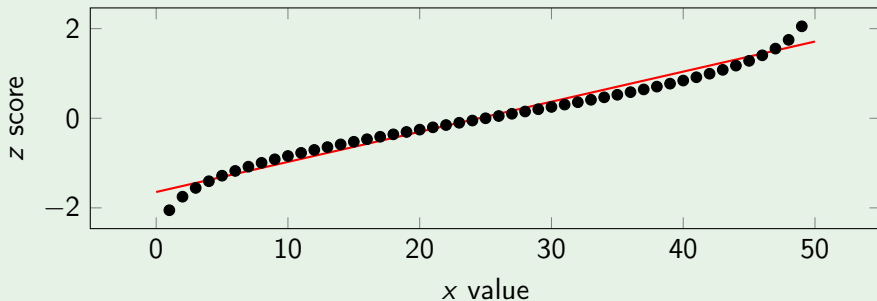
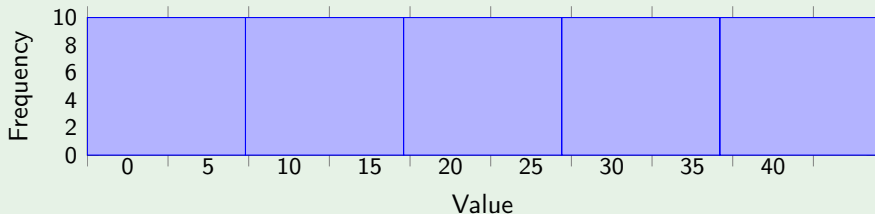
Example 1

Let us consider the IQ scores for 121 individuals.



Example 2

Let us consider 50 uniformly distributed values.



Example 3

Let us consider the populations of 23 countries.

