(Rainwater) The acidity levels (measured by pH) of 105 samples of rainwater were recorded. A density histogram of the measurements is given below. Distilled water has pH 7.00. As the water becomes more acidic, the pH goes down.

(Guinea Pigs) The survival times in days of 72 guinea pigs after they were injected with tubercle bacilli in a medical experiment. A density histogram is shown below.
Normal Quantile Plots

In Minitab, Graph → Probability Plot → Single → Select a variable → OK.
You notice that the default setting does not produce the following graphs. You need to change
a few plotting options to get Normal quantile plots as given below. Click on Distribution
and change Data Display style from Both symbols and distribution fit to Symbols only. Click on
Scale, check Transpose Y and X and change Y-scale Type from Percent to Score.

(Rainwater) Are the acidity levels of rainwater approximately normally distributed?

![Probability Plot of Rainwater Acidity (pH)](image)

(Guinea Pigs) Can the survival times be adequately modelled as a Normal distribution?

![Probability Plot of Survival Times (days)](image)