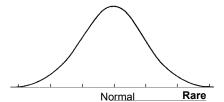
Lesson 13: Normal? Find out with a normal probability plot!



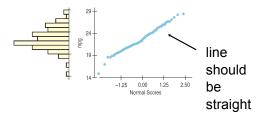
When is a normal model appropriate?

- · When you actually have your own data, you must *check* to see whether a Normal model is reasonable.
- Looking at a histogram of the data is a good way to check that the underlying distribution is roughly unimodal and symmetric.

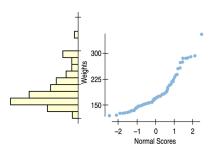
1

Normal Probability Plot

A more specialized graphical display that can help you decide whether a Normal model is appropriate is the Normal probability plot.

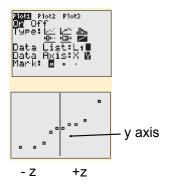


A skewed distribution might have a histogram and Normal probability plot like this:



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M. Singh

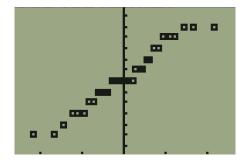


Are you normal?

your exam scores

14 14 17 14 13 14 19
18 18 9 14 15 11 14
11 15 18 13 11 9 14
16 10 13 16 15 19 13
19 12 12 17

M. Singh



Σ=14.28125 Σ=14.28125 Σ×=457 Σײ=6781 S×=2.865077548 σ×=2.819955396 ↓n=32

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