

16.E: Transformations (Exercises)

General Questions

Q1

When is a log transformation valuable?

Q2

If the arithmetic mean of \log_{10} transformed data were 3, what would be the geometric mean?

Q3

Using Tukey's ladder of transformation, transform the following data using a λ of 0.5 : 9, 16, 25

Q4

What value of λ in Tukey's ladder decreases skew the most?

Q5

What value of λ in Tukey's ladder increases skew the most?

Question from Case Study

Q6

In the ADHD case study, transform the data in the placebo condition ($D0$) with λ 's of 0.5, 0, -0.5 , and -1 . How does the skew in each of these compare to the skew in the raw data. Which transformation leads to the least skew?

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