

Worksheet 10

The following data are a list of heights in inches and weights in pounds for randomly selected cross-eyed cats.

height	12.2	14.3	13.1	12.1	13.1	12.8	13.0	13.0	12.4	14.1
weight	8.3	11.5	9.1	7.6	8.7	9.6	10.0	9.5	8.9	10.4

1. Find the correlation coefficient.
2. Find the least squares line.
3. Predict the weight of a cross-eyed cat 12.6 inches tall.
4. What fraction of the variation in weights is explained by height?