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## Week 2 Suggested Readings and Exercises

Suggested readings and practice problems from [OpenIntro Statistics, 3rd edition](#) (a free online introductory statistics textbook co-authored by Dr. Cetinkaya-Rundel) for this week:

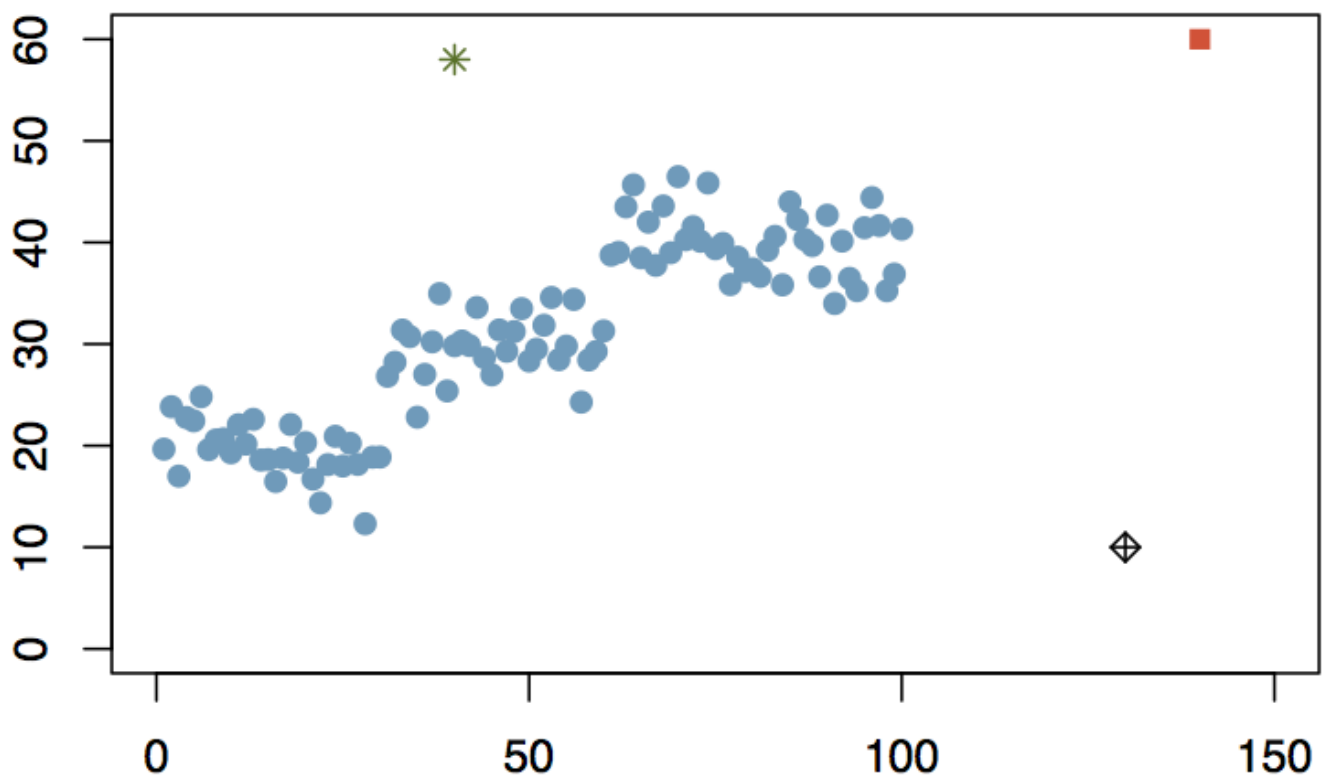
**Suggested reading:** Chapter 7, Section 7.3, 7.4

**Suggested exercises:** (End of chapter exercises from OpenIntro Statistics)

- Inference for linear regression: 7.25, 7.37, 7.39, 7.41, 7.43

**Test yourself:**

1. Determine if each of the three unusual observations in the plot below would be considered just an outlier, a leverage point, or an influential point.



2. Given the regression output below for predicting  $y$  from  $x$  where  $n = 100$ , confirm the  $T$  score and the  $p$ -value, determine whether  $x$  is a significant predictor of  $y$ , and interpret the  $p$ -value in context.
3. Calculate a 95% confidence interval for the slope given above.