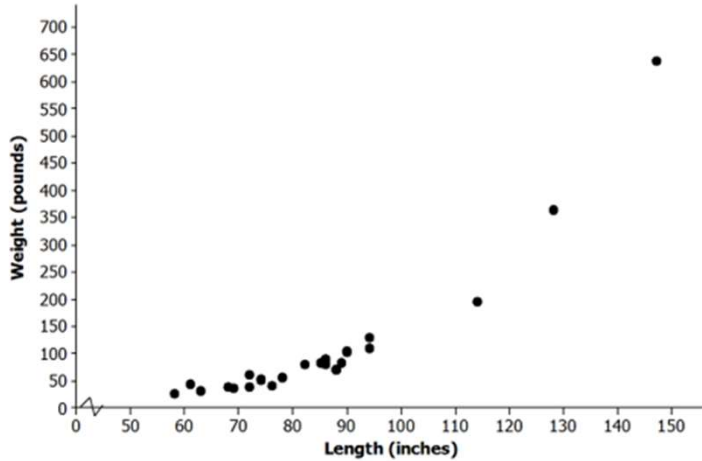
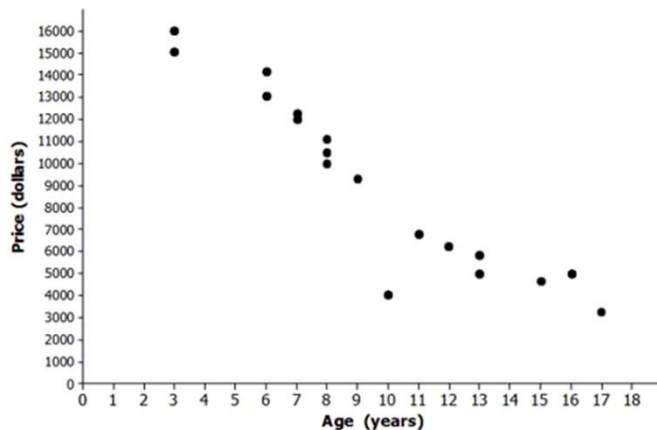


# Scatter Plots

1. The scatter plot below was constructed using data on length in inches ( $x$ ) of several alligators and weight in pounds ( $y$ ). Write a few sentences describing the relationship between weight and length for these alligators. Are there any noticeable clusters or outliers?



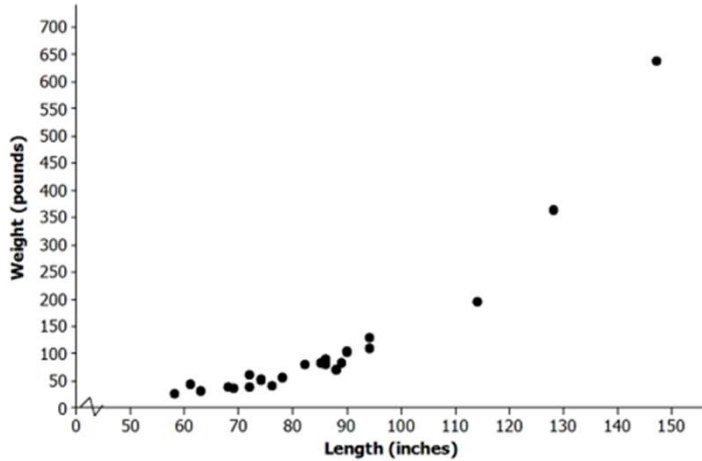
2. Suppose the scatter plot below was constructed using data on age in years ( $x$ ) of several Honda Civics and price in dollars ( $y$ ). Write a few sentences describing the relationship between price and age for these cars. Are there any noticeable clusters or outliers?



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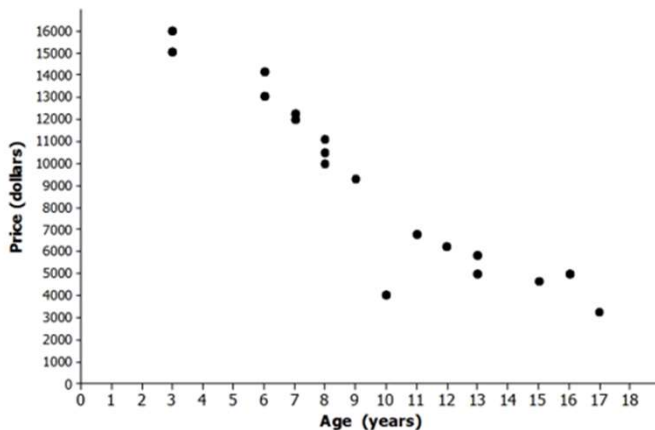
# Scatter Plots

1. The scatter plot below was constructed using data on length in inches ( $x$ ) of several alligators and weight in pounds ( $y$ ). Write a few sentences describing the relationship between weight and length for these alligators. Are there any noticeable clusters or outliers?



Answers will vary. Possible response: There appears to be a positive relationship between length and weight, but the relationship is not linear. Weight tends to increase as length increases. There are three observations that stand out as outliers. These correspond to alligators that are much bigger in terms of both length and weight than the other alligators in the sample. Without these three alligators, the relationship between length and weight would look linear. It might be possible to use a line to model the relationship between weight and length for alligators that have lengths of fewer than 100 inches.

2. Suppose the scatter plot below was constructed using data on age in years ( $x$ ) of several Honda Civics and price in dollars ( $y$ ). Write a few sentences describing the relationship between price and age for these cars. Are there any noticeable clusters or outliers?



Answers will vary. Possible response: There appears to be a negative linear relationship between price and age. Price tends to decrease as age increases. There is one car that looks like an outlier—the car that is 10 years old. This car has a price that is lower than expected based on the pattern of the other points in the scatter plot.

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