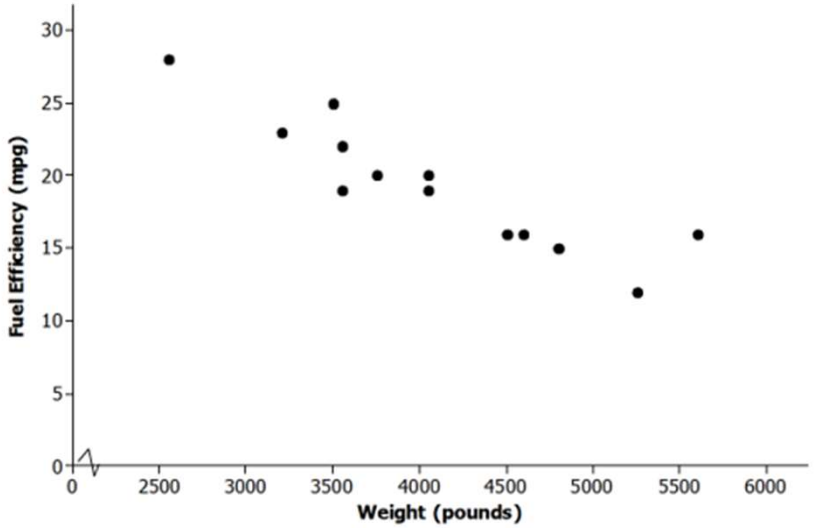
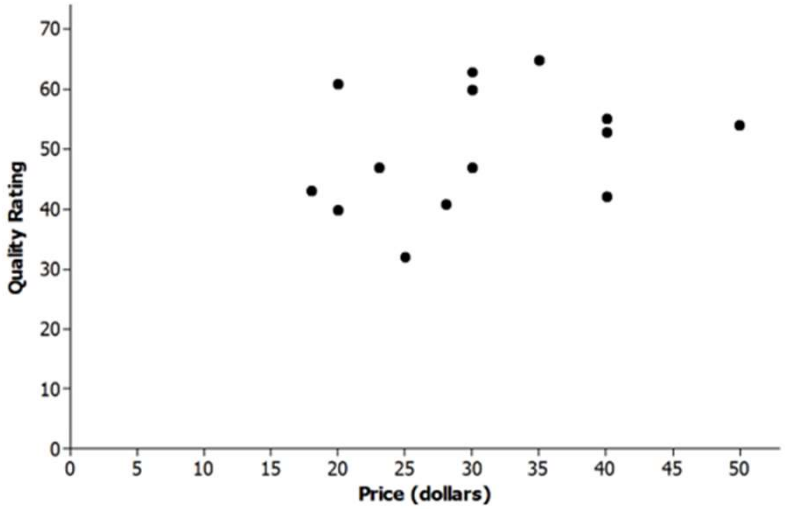
Scatter Plots

1. Shown below is a scatter plot of data on weight in pounds (x) and fuel efficiency in miles per gallon (y) for 13 cars. Write a few sentences describing any possible relationship between x and y.



2. Shown below is a scatter plot of data on price in dollars (x) and quality rating (y) for 14 bike helmets. Write a few sentences describing any possible relationship between x and y



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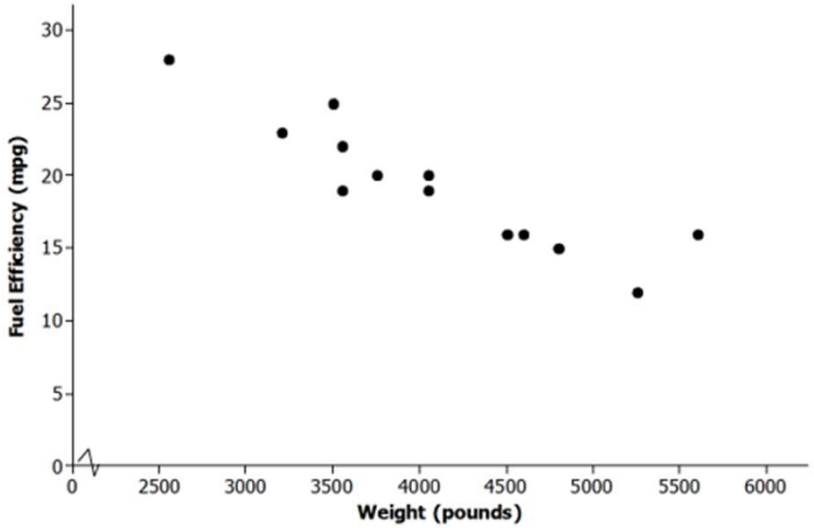
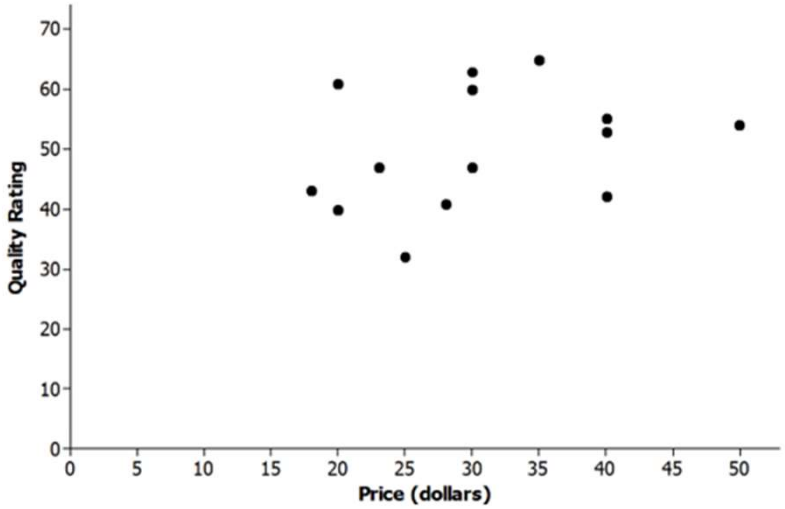


Possible response: There appears to be a negative linear relationship between fuel efficiency and weight. Students may note that this is a fairly strong negative relationship. The cars with greater weight tend to have lesser fuel efficiency.

2. Shown below is a scatter plot of data on price in dollars (x) and quality rating (y) for 14 bike helmets. Write a few sentences describing any possible relationship between x and y



Possible response: There does not appear to be a relationship between quality rating and price. The points in the scatter plot appear to be scattered at random, and there is no apparent pattern in the scatter plot.