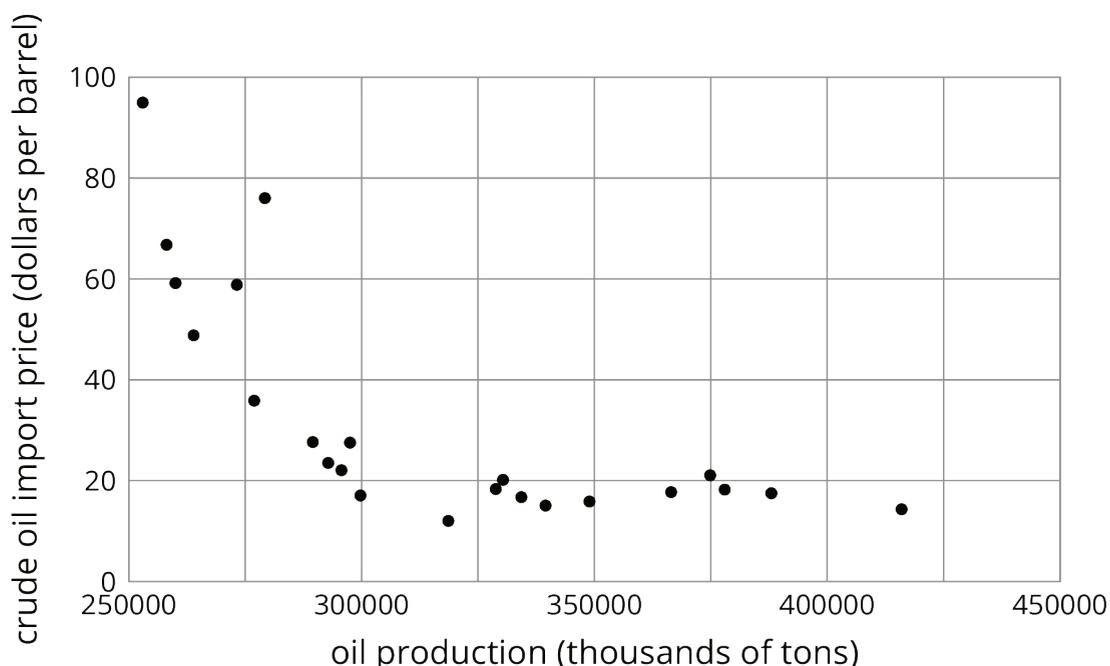


Lesson 7: Observing More Patterns in Scatter Plots

Let's look for other patterns in data.

7.1: Notice and Wonder: Nonlinear Scatter Plot

What do you notice? What do you wonder?



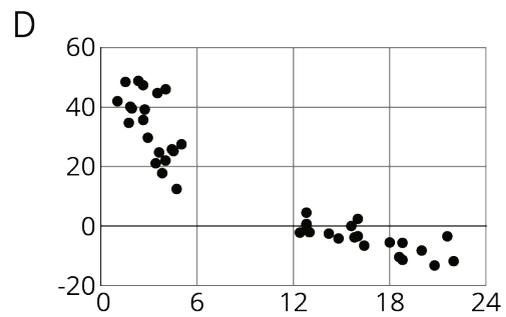
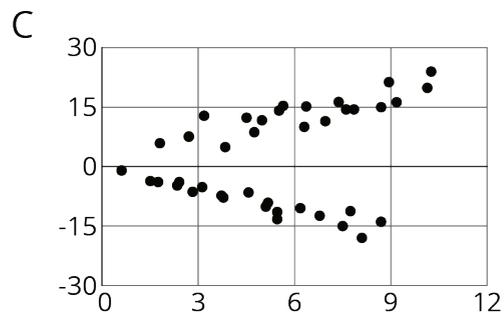
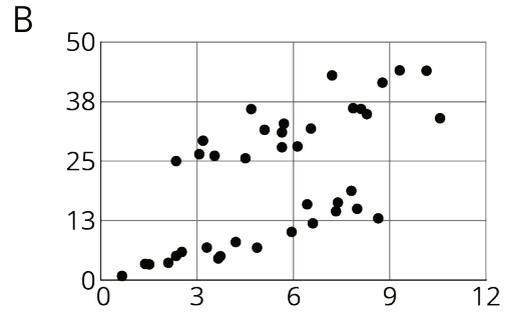
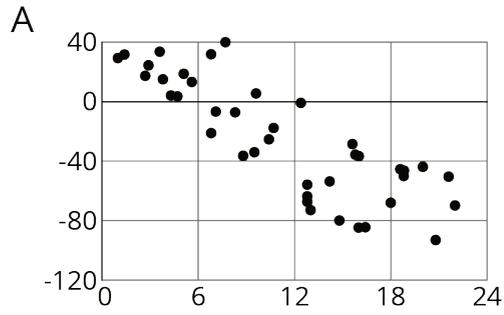
7.2: Scatter Plot City

Your teacher will give you a set of cards. Each card shows a scatter plot.

1. Sort the cards into categories and describe each category.
2. Explain the reasoning behind your categories to your partner. Listen to your partner's reasoning for their categories.
3. Sort the cards into two categories: positive associations and negative associations. Compare your sorting with your partner's and discuss any disagreements.
4. Sort the cards into two categories: linear associations and non-linear associations. Compare your sorting with your partner's and discuss any disagreements.

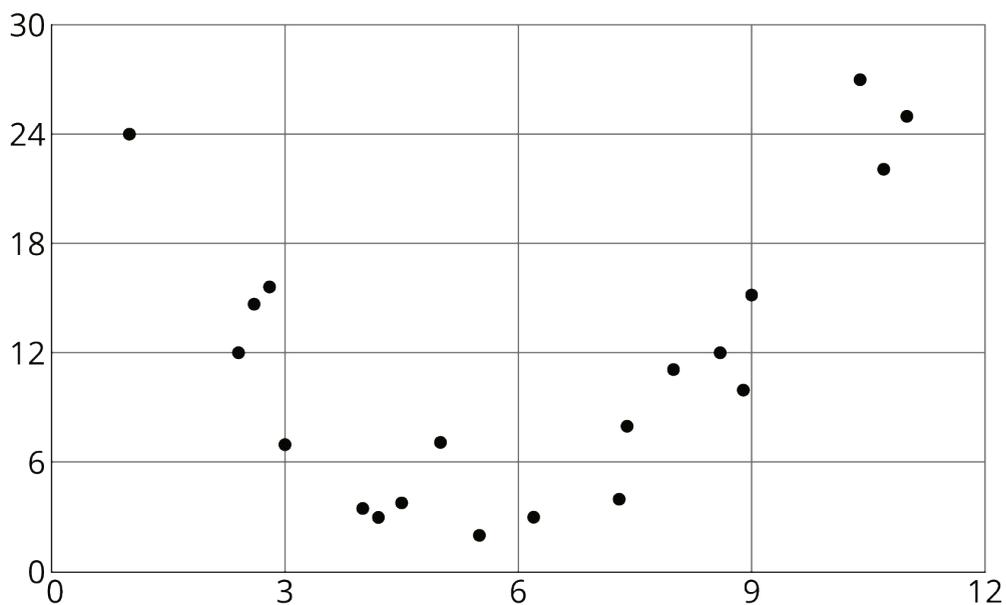
7.3: Clustering

How are these scatter plots alike? How are they different?



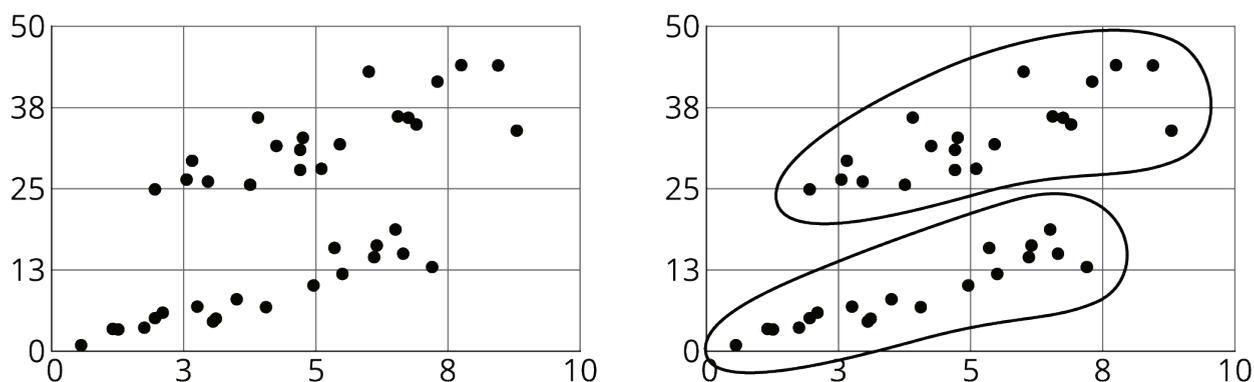
Lesson 7 Summary

Sometimes a scatter plot shows an association that is *not* linear:



We call such an association a *non-linear association*. In later grades, you will study functions that can be models for non-linear associations.

Sometimes in a scatter plot we can see separate groups of points.



We call these groups *clusters*.