

Activity 3: All the Representations

	Dot Plot	Histogram	Box Plot	Description
Data Set 1				<input type="checkbox"/> Skewed <input checked="" type="checkbox"/> Symmetric <input type="checkbox"/> Bimodal <input checked="" type="checkbox"/> Bell-shaped <input type="checkbox"/> Uniform
Data Set 2				<input type="checkbox"/> Skewed <input type="checkbox"/> Symmetric <input checked="" type="checkbox"/> Bimodal <input type="checkbox"/> Bell-shaped <input type="checkbox"/> Uniform
Data Set 3				<input type="checkbox"/> Skewed <input checked="" type="checkbox"/> Symmetric <input type="checkbox"/> Bimodal <input type="checkbox"/> Bell-shaped <input checked="" type="checkbox"/> Uniform
Data Set 4				<input checked="" type="checkbox"/> Skewed <input type="checkbox"/> Symmetric <input type="checkbox"/> Bimodal <input type="checkbox"/> Bell-shaped <input type="checkbox"/> Uniform

Explore

For each situation below, say which data set from the previous page is most likely to describe it.

- 1.1 Students were asked: How much do you like baseball on a scale of 0–10?

Data Set 2 is the only one that fits, because the values are between 0 and 10.

- 1.2 Students in a class were each given a carton of eggs to take home. One week later, they recorded how many eggs were left in each carton.

Any of the data sets are possible. I think Data Set 4 is most likely, because after a week, I think most cartons would be close to empty.

2. For the two remaining data sets, write survey questions that might have produced the data.

Responses vary.

Data Set 1: How many questions did you get correct on a recent quiz?

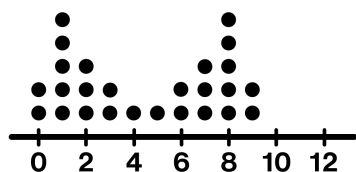
Data Set 3: What is the table number of your assigned seat in class?

Consider these five descriptions for the shapes of data sets.

Skewed	Uniform	Bell-shaped	Bimodal	Symmetric
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3. Prisha noticed that a data set can sometimes have **more than one shape**. She wondered whether if a data set could be both bimodal and symmetric. Make a dot plot of such a set, or say why it's not possible.

Dot plots vary.



4. What are some other combinations of data shapes that are possible?

Responses vary.

- A symmetric data set could also be uniform, bell-shaped, or bimodal.
- A bimodal data set could also be skewed.

5. What are some combinations that you think are *impossible*?

Responses vary.

- I don't think a data set can be uniform while also being bimodal or skewed.
- I don't think a data set can be both symmetric and skewed.