

# DESCRIBING DISTRIBUTIONS IN DOT PLOTS

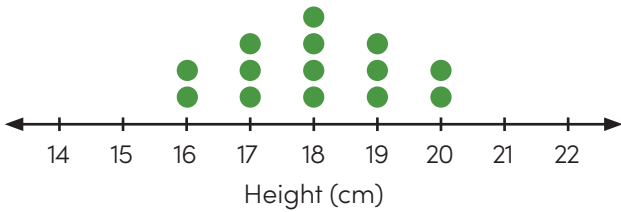


Read the text about each dot plot below. Describe the distribution shown by calculating the mean, median, mode, and range. Then, write a sentence describing the shape of the distribution shown in the dot plot. **Sentences will vary.**

1

Mr. Carson's science class is conducting an experiment. They record the height, in centimeters, of each of the bean plants they are growing.

**Height of Bean Plants**



Mean = 18 Median = 18

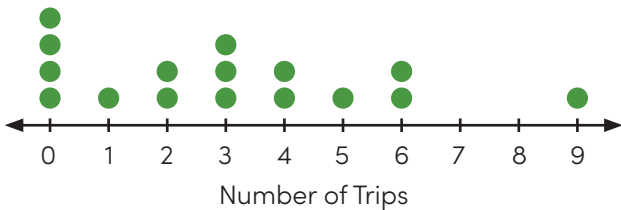
Mode = 18 Range = 4

Shape: The data is symmetric.

2

Eve wants to know how often middle schoolers go to the movies. She surveys students in her homeroom and asks how many times they went to the movies last month.

**Trips to the Movies**



Mean = 3 Median = 3

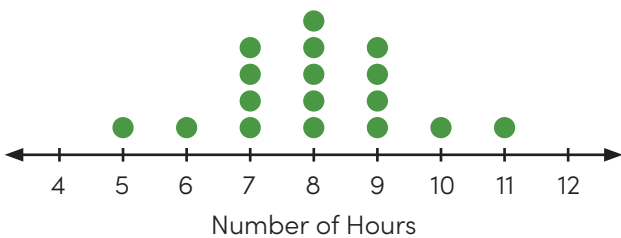
Mode = 0 Range = 9

Shape: The data is spread out from 0 to 9 trips. There is a gap from 7 to 8 trips.

3

Kyla is curious how many hours students in her grade sleep each night. During lunch, she asks a few students at every lunch table how long they slept last night.

**Hours Slept Last Night**



Mean = 8 Median = 8

Mode = 8 Range = 6

Shape: The data is symmetric. There is a cluster from 7 to 9 hours.

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**Keep going!** Describe the distribution shown by calculating the mean, median, mode, and range. Then, write a sentence describing the shape of the distribution shown in the dot plot. **Sentences will vary.**

4

Tim loves soccer and wants to learn more facts about the game. He researches the total number of goals scored in the past few Women's World Cup finals.

**Soccer Goals Scored**



Mean = 3      Median = 2.5

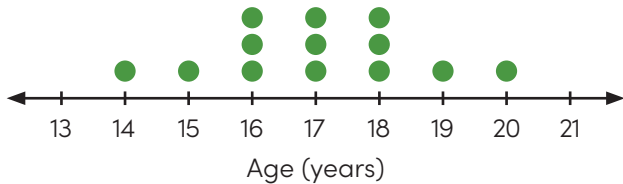
Mode = 2      Range = 6

Shape: There is a cluster from 1 to 4 goals.  
There is a gap from 5 to 6 goals.

5

Li is a gymnast and dreams of becoming an Olympic all-around champion. She records the ages of some of the most recent champions.

**Olympic All-Around Champions**



Mean = 17      Median = 17

Mode = 16, 17, 18      Range = 6

Shape: The data is symmetric. There is a cluster from 16 to 18 years old.

6

Kai is training for a marathon. He keeps track of the number of miles that he runs each month.

**Miles Ran Last Month**



Mean = 5      Median = 5

Mode = 3      Range = 6

Shape: The data is skewed to the right.