

Describing Distributions in Histograms

Read the text about each histogram below. Describe the distribution shown by calculating the mean, median, mode, and range. Then, write a sentence to describe the shape of the distribution shown in the histogram.

1. Paula has a swim meet coming up. She keeps track of the number of laps she swims in each 30-minute practice leading up to the meet.

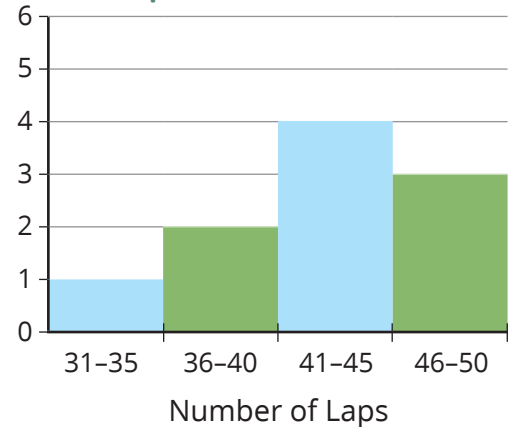
44 45 40 35 48 42 39 44 47 46

Mean = 43 Median = 44

Mode = 44 Range = 13

Shape: The data is skewed to the left.

Laps Swam Each Practice



2. Bryson is a fan of live music. He wants to know if concerts are popular with his peers, so he asks his classmates how many concerts they have attended.

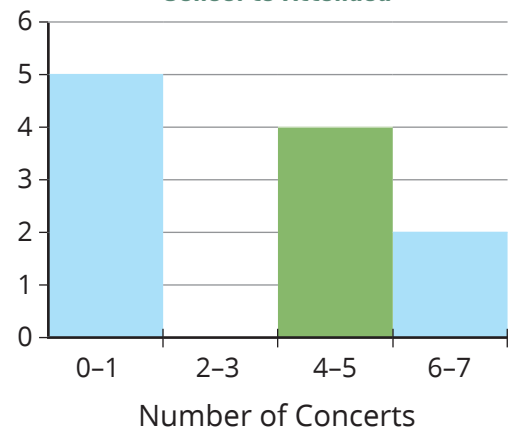
0 0 7 0 1 4 7 4 1 5 4

Mean = 3 Median = 4

Mode = 0, 4 Range = 7

Shape: There is a gap in the data at 2-3.

Concerts Attended



3. Dr. Jordan volunteers with a local environmental group studying lakes in Franklin County. Yesterday, she measured and recorded the water temperatures in the nearby lakes.

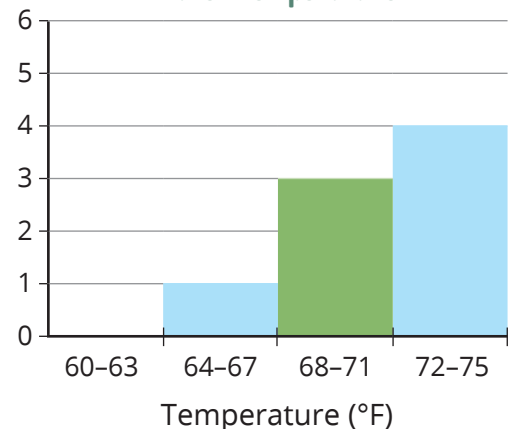
75 73 65 69 71 73 68 74

Mean = 71 Median = 72

Mode = 73 Range = 10

Shape: The data is skewed to the left.

Water Temperature



Describing Distributions in Histograms

Keep going! Describe the distribution shown by calculating the mean, median, mode, and range. Then, write a sentence to describe the shape of the distribution shown in the histogram.

4. Miya grew several varieties of tomato plants. She records the total weight of the tomatoes grown on each plant.

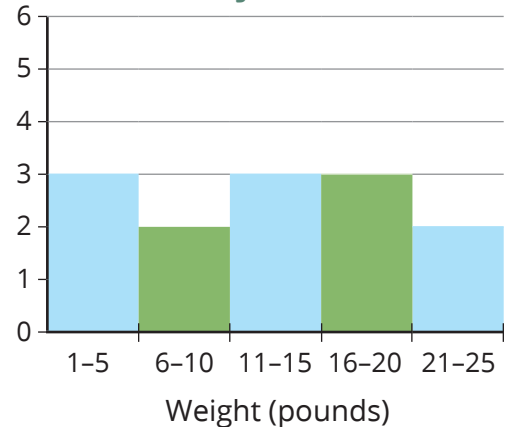
23 21 11 8 6 3 18 5 20 20 14 5 15

Mean = 13 Median = 14

Mode = 5, 20 Range = 20

Shape: The data is uniform.

Total Weight of Tomatoes



5. Austin is a snowboarder and dreams of competing in the Nor'easter Freestyle competition. He records the ages of the most recent Nor'easter Freestyle winners.

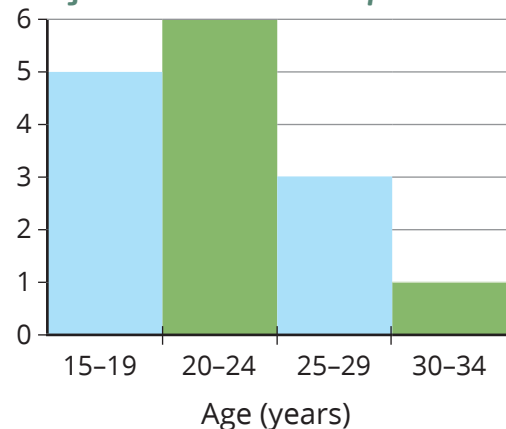
16 21 21 17 32 28 27 18 21 19 20 24 29 22 15

Mean = 22 Median = 21

Mode = 21 Range = 17

Shape: The data is skewed to the right.

Ages of Nor'easter Freestyle Winners



6. Gemma wants to know how often middle schoolers play video games. She surveys students in her homeroom and asks how many days they played video games last week.

3 3 4 7 0 1 2 5 4 4 7 2

Mean = 3.5 Median = 3.5

Mode = 4 Range = 7

Shape: The data is symmetrical.

Days Playing Video Games Last Week

