

1. The figure below is a frequency table of the number of servings of fruit per day claimed by 44 seventeen-year-old girls in a study in Martinville, U.S.A.

Number of Servings	Frequency
0	5
1	4
2	4
3	8
4	7
5	5
6	4
7	5
8	2
9	0

Use the table to find the mean number of servings of fruit per day  $\bar{x}$  which these girls ate.

- A. The mean  $\bar{x}$  of the data set 3.43 servings of fruit per day.
- B. The mean  $\bar{x}$  of the data set 3.83 servings of fruit per day.
- C. The mean  $\bar{x}$  of the data set 2.83 servings of fruit per day.
- D. The mean  $\bar{x}$  of the data set 4.03 servings of fruit per day.
- E. The mean  $\bar{x}$  of the data set 3.73 servings of fruit per day.
- F. The mean  $\bar{x}$  of the data set 4.33 servings of fruit per day.
- G. The mean  $\bar{x}$  of the data set 4.43 servings of fruit per day.
- H. The mean  $\bar{x}$  of the data set 3.13 servings of fruit per day.

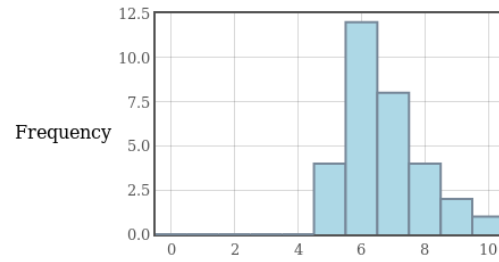
2. Below is a frequency table of a random sample of the heights in feet of 25 trees sampled from the SWOCC Coos Bay Campus.

Tree Height	Frequency
25 to 30	3
30 to 35	4
35 to 40	3
40 to 45	7
45 to 50	2
50 to 55	3
55 to 60	3

Use the table to estimate the mean tree height  $\bar{x}$  of this sample.

- A. The approximate mean tree height  $\bar{x}$  of this sample is 41.8 feet.
- B. The approximate mean tree height  $\bar{x}$  of this sample is 41.4 feet.
- C. The approximate mean tree height  $\bar{x}$  of this sample is 41.3 feet.
- D. The approximate mean tree height  $\bar{x}$  of this sample is 41.9 feet.
- E. The approximate mean tree height  $\bar{x}$  of this sample is 42.3 feet.
- F. The approximate mean tree height  $\bar{x}$  of this sample is 41.6 feet.
- G. The approximate mean tree height  $\bar{x}$  of this sample is 41 feet.
- H. The approximate mean tree height  $\bar{x}$  of this sample is 42.8 feet.

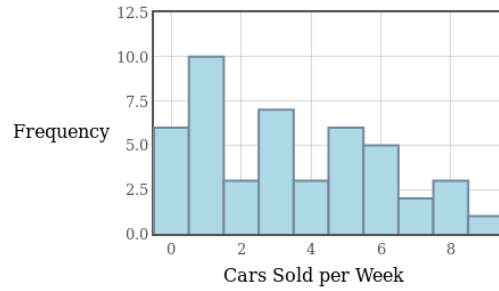
3. Consider the data set summarized by the histogram below.



Use the histogram to find the mode of this data set.

- A. The mode of the data set is 8.
- B. The mode of the data set is 11.
- C. The mode of the data set is -2.
- D. The mode of the data set is 3.
- E. The mode of the data set is 2.
- F. The mode of the data set is 0.
- G. The mode of the data set is 10.
- H. The mode of the data set is 6.

4. 46 randomly selected car salespersons were asked the number of cars they generally sell in one week. The results are summarized by the histogram below.



Use the histogram to find the mean number of cars  $\bar{x}$  sold in one week by the sales people asked.

- A. The mean number of cars  $\bar{x}$  sold in one week by the sales people in the sample is 3.49 cars.
- B. The mean number of cars  $\bar{x}$  sold in one week by the sales people in the sample is 2.89 cars.
- C. The mean number of cars  $\bar{x}$  sold in one week by the sales people in the sample is 3.39 cars.
- D. The mean number of cars  $\bar{x}$  sold in one week by the sales people in the sample is 3.29 cars.
- E. The mean number of cars  $\bar{x}$  sold in one week by the sales people in the sample is 4.09 cars.
- F. The mean number of cars  $\bar{x}$  sold in one week by the sales people in the sample is 3.79 cars.
- G. The mean number of cars  $\bar{x}$  sold in one week by the sales people in the sample is 2.59 cars.
- H. The mean number of cars  $\bar{x}$  sold in one week by the sales people in the sample is 2.49 cars.

5. Listed below are a random sample of 28 ages for students taking music classes Southwestern Oregon Community College.

17, 18, 20, 21, 21, 22, 24, 25, 26, 26, 26, 26, 27, 27, 28, 28, 28, 29, 30, 31, 33, 34, 34, 35, 36, 38, 40, 41

What are the mean, median, and mode of this data set.

- A. The mean is 26.75, the median is 26, and the mode is 23.
- B. The mean is 26.75, the median is 27.5, and the mode is 23.
- C. The mean is 28.25, the median is 27.5, and the mode is 26.
- D. The mean is 26.75, the median is 30, and the mode is 25.
- E. The mean is 28.25, the median is 27.5, and the mode is 28.
- F. The mean is 28.25, the median is 30, and the mode is 28.
- G. The mean is 28.25, the median is 26, and the mode is 26.
- H. The mean is 26.75, the median is 26, and the mode is 25.

6. Listed below is a sample of 30 daily high temperatures in Martinville U.S.A. for one month in order from smallest to largest.

59, 60, 63, 64, 65, 65, 66, 66, 67, 68, 69, 71, 71, 71, 72, 72, 72, 73, 74, 75, 75, 76, 76, 77, 78, 78, 79, 82, 96

What is the sample median high temperature of this sample?

- A. The median high temperature of this sample is 74 degrees.
- B. The median high temperature of this sample is 72 degrees.
- C. The median high temperature of this sample is 69 degrees.
- D. The median high temperature of this sample is 71.5 degrees.
- E. The median high temperature of this sample is 68 degrees.
- F. The median high temperature of this sample is 73.5 degrees.
- G. The median high temperature of this sample is 74.5 degrees.
- H. The median high temperature of this sample is 75.5 degrees.

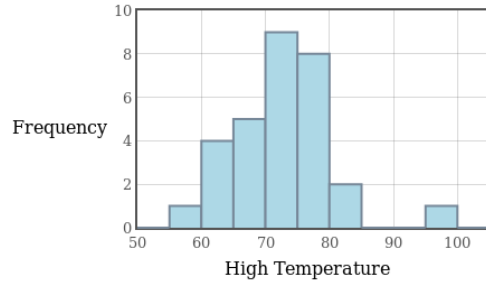
7. Listed below are a random sample of the heights in feet of 25 trees sampled from the SWOCC Coos Bay Campus in order from smallest to largest.

27, 31, 32, 32, 33, 33, 34, 34, 38, 39, 39, 39, 40, 41, 43, 45, 45, 46, 46, 50, 51, 53, 54, 55, 58

What is the median tree height of this sample?

- A. The median tree height of the sample is 43.5. feet
- B. The median tree height of the sample is 44. feet
- C. The median tree height of the sample is 38.5. feet
- D. The median tree height of the sample is 40. feet
- E. The median tree height of the sample is 41.5. feet
- F. The median tree height of the sample is 43. feet
- G. The median tree height of the sample is 36.5. feet
- H. The median tree height of the sample is 37. feet

8. Below is a histogram of 30 daily high temperatures in Martinville U.S.A. for one month.



Use the histogram to estimate the mean high temperature  $\bar{x}$  of this sample.

- A. The approximate mean high temperature  $\bar{x}$  of this sample is 72.57 degrees.
- B. The approximate mean high temperature  $\bar{x}$  of this sample is 72.67 degrees.
- C. The approximate mean high temperature  $\bar{x}$  of this sample is 71.97 degrees.
- D. The approximate mean high temperature  $\bar{x}$  of this sample is 73.47 degrees.
- E. The approximate mean high temperature  $\bar{x}$  of this sample is 72.27 degrees.
- F. The approximate mean high temperature  $\bar{x}$  of this sample is 72.37 degrees.
- G. The approximate mean high temperature  $\bar{x}$  of this sample is 71.87 degrees.
- H. The approximate mean high temperature  $\bar{x}$  of this sample is 73.27 degrees.