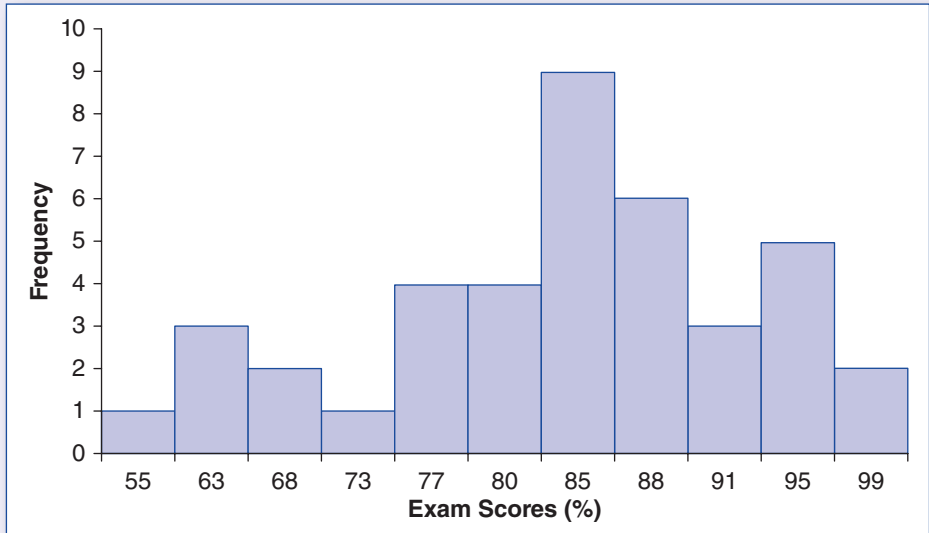


Figure 4.1



5. Explain why “the mean” is the correct answer to the previous question.

A: The mean must use each and every score in its calculation, so it has to change when one score is added to the dataset. The median does not necessarily change because the middle number (or middle two numbers) are not guaranteed to change by adding one score to the dataset. The mode does not change unless its addition makes that score the most frequently occurring score in the dataset.

6. You read a research article that reports the following information: “Scores on the sexism measure ( $M = 5.5$ ,  $Mdn = 5.0$ , mode = 5.0) were higher than scores on the measure of racial prejudice ( $M = 4.8$ ,  $Mdn = 4.5$ , mode = 5.0).”

Use this information to answer the following questions:

- a) What is the mean of the sexism measure?

A: 5.5

- b) What is the mean of the racial prejudice measure?

A: 4.8

- c) What is the median of the sexism measure?

A: 5.0

- d) What is the median of the racial prejudice measure?

A: 4.5

- e) What is the mode of the sexism measure?

A: 5.0

- f) What is the mode of the racial prejudice measure?

A: 5.0