Lagunita is retiring and will shut down at 12 noon Pacific Time on March 31, 2020. A few courses may be open for self-enrollment for a limited time. We will continue to offer courses on other online learning platforms; visit http://online.stanford.edu.

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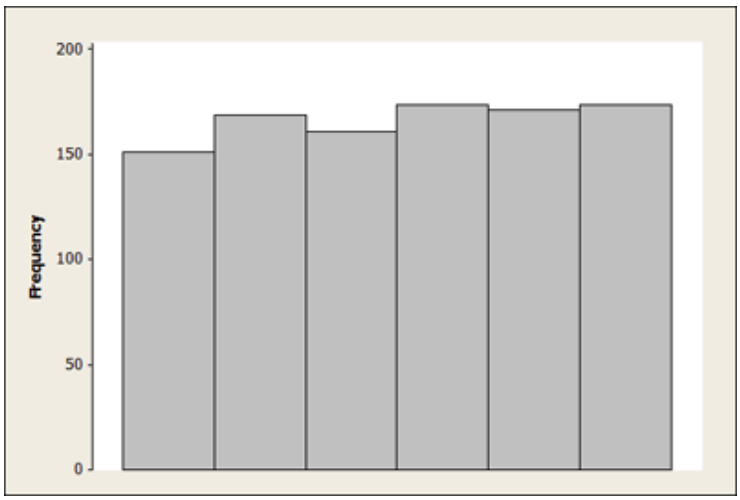
Extra Problems

These extra questions are here to give you more practice if you feel you need it. No new concepts are introduced on this page. If you've "got it", go ahead and move on to the next page. If you'd like a little more practice, work through the questions below.

Question

1/1 point (graded)

Which of the following is the best description of the data used to generate this histogram (note that the horizontal axis has no scale, so you will make your choice based solely upon the histogram's shape)?



- SAT Math scores of 1,000 future engineers and scientists.
- Results of rolling a six-sided die 1,000 times. ✔

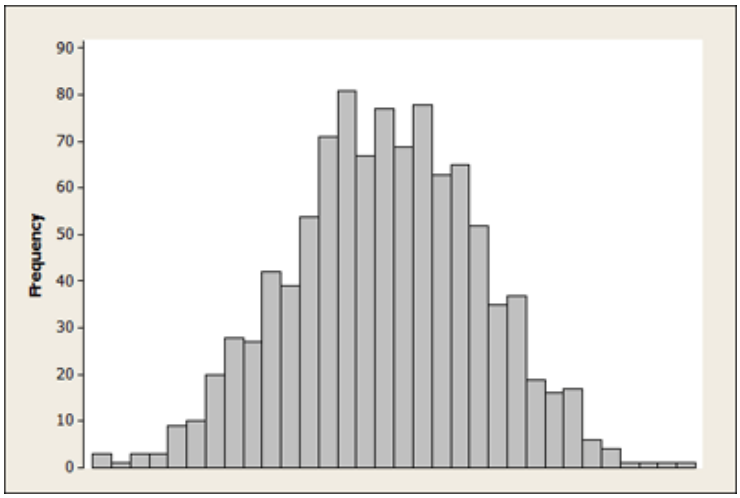
- Cholesterol levels of 1,000 adults.
- Shoe sizes of 1,000 men and women.
- Prices of 1,000 California homes.

Answer
Correct:
This histogram's distribution is symmetric—uniform because all the bars are approximately the same height. Since rolling a 1, 2, 3, 4, 5 or 6 is equally likely, we'd expect the distribution to be symmetric—uniform.

Submit

Question

1/1 point (graded)
Which of the following is the best description of the data used to generate this histogram (note that the horizontal axis has no scale, so you will make your choice based solely upon the histogram's shape)?



- SAT Math scores of 1,000 future engineers and scientists.
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- Cholesterol levels of 1,000 adults. ✔

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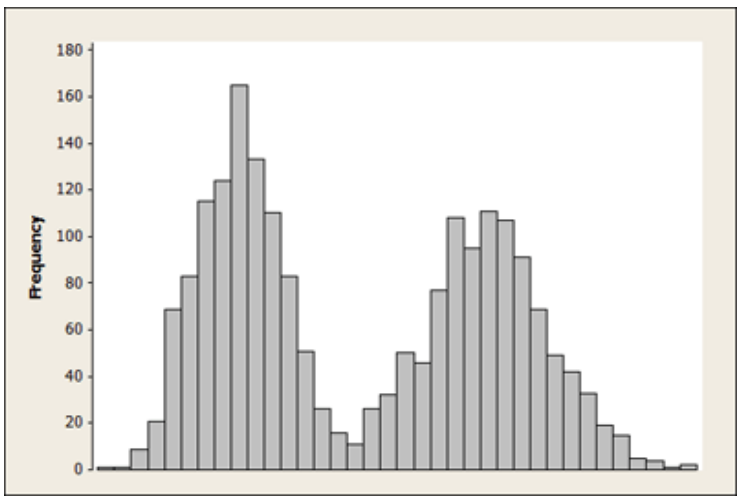
Answer
Correct:
This histogram's distribution is symmetric—unimodal—the highest bars are in the middle, with the rest sloping symmetrically down on both sides. We'd expect the cholesterol levels of adults to consist of a few very low numbers and a few very high numbers, with most in the middle.

Submit

Question

1/1 point (graded)
Which of the following is the best description of the data used to generate this histogram (note that the horizontal axis has no scale, so you will make your choice based solely upon the histogram's shape)?



- SAT Math scores of 1,000 future engineers and scientists.
- Results of rolling a six-sided die 1,000 times.
- Cholesterol levels of 1,000 adults.
- Shoe sizes of 1,000 men and women. ✔

Prices of 1,000 California homes.

Answer

Correct:

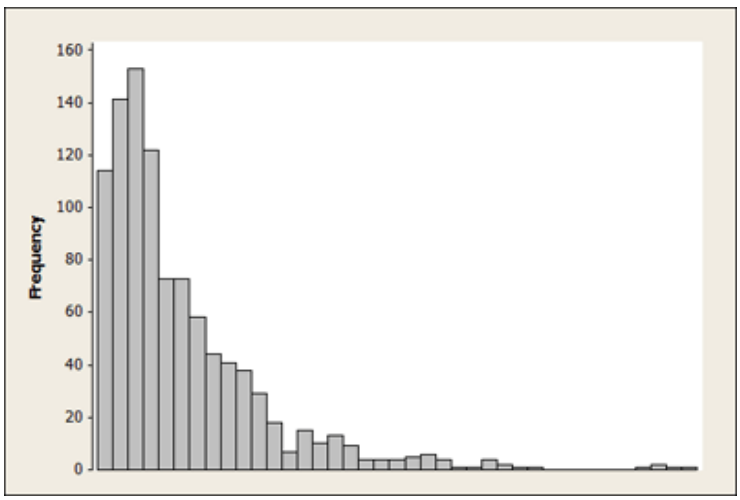
The histogram's distribution is symmetric—bimodal, since there are two peaks. Since the shoe sizes of women are usually smaller that those of men, we'd expect two places where the bars are higher.

Submit

Question

1/1 point (graded)

Which of the following is the best description of the data used to generate this histogram (note that the horizontal axis has no scale, so you will make your choice based solely upon the histogram's shape)?



SAT Math scores of 1,000 future engineers and scientists.

Results of rolling a six-sided die 1,000 times.

Cholesterol levels of 1,000 adults.

Shoe sizes of 1,000 men and women.

Prices of 1,000 California homes. ✔

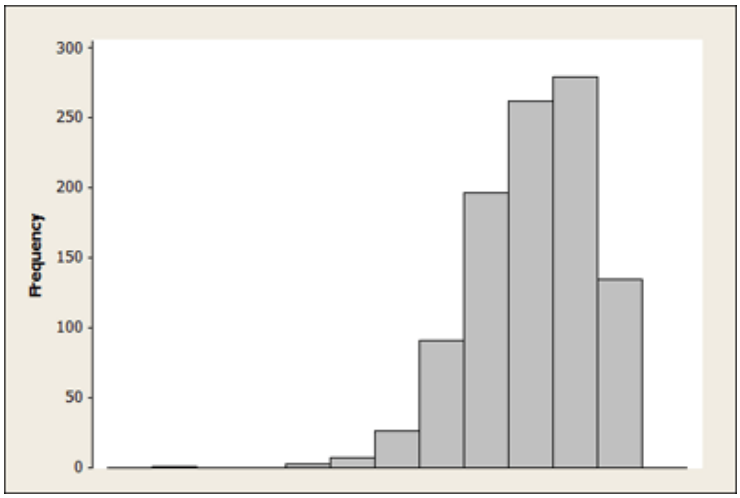
Answer

Correct:
This histogram has the bulk of the data on the left, and thus is skewed right. We'd expect a few mansions that are worth millions to make this distribution skewed right.

Submit

Question

1/1 point (graded)
Which of the following is the best description of the data used to generate this histogram (note that the horizontal axis has no scale, so you will make your choice based solely upon the histogram's shape)?



- (•) SAT Math scores of 1,000 future engineers and scientists. ✔
- ( ) Results of rolling a six-sided die 1,000 times.
- ( ) Cholesterol levels of 1,000 adults.
- ( ) Shoe sizes of 1,000 men and women.
- ( ) Prices of 1,000 California homes.

Answer
Correct:
The bulk of the data in this histogram is on the right, so its distribution is skewed left. The bulk of the SAT Math scores for engineers and scientists would be high scores, since people interested in those fields are usually good at math, so we would expect this distribution to be is skewed left.

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