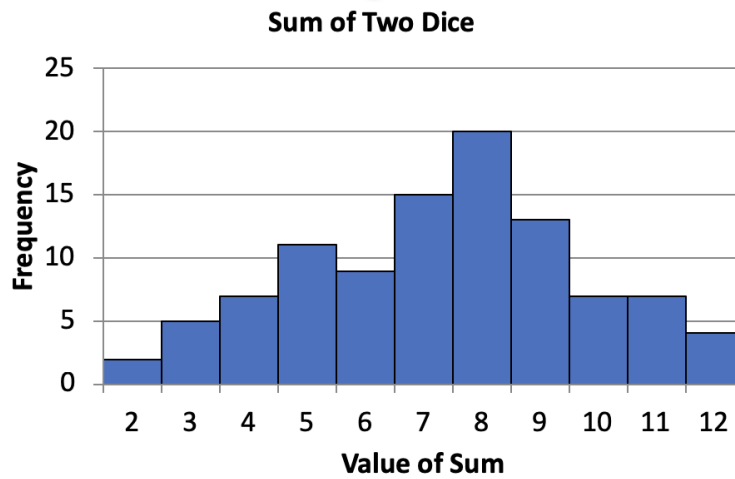


An experiment was conducted in which two fair dice were thrown 100 times. The sum of the pips showing on the dice was then recorded. The following frequency histogram gives the results.



- (a) What was the most frequent outcome of the experiment?
- (b) What was the least frequent?
- (c) How many times did we observe a 7?
- (d) How many more 5's were observed than 4's?
- (e) Determine the percentage of time a 7 was observed.
- (f) Describe the shape of the distribution.

Solution:

- (a) The most frequent outcome was 8.
- (b) The least frequent outcome was 2.
- (c) We observed a 7 fifteen times.
- (d) There were four more 5's than 4's.
- (e) A 7 was observed fifteen times in one-hundred trials, so a 7 was observed 15% of the time.
- (f) This distribution is bell-shaped.