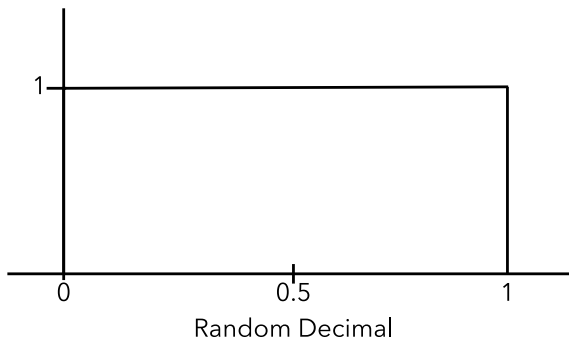


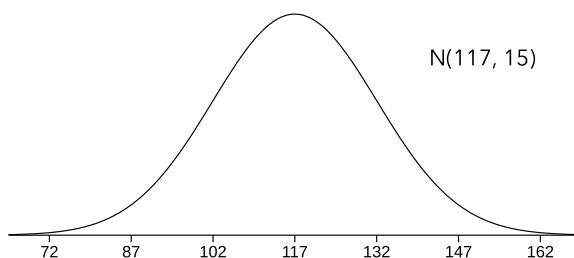
1.
 - a. Most heights will be near the mean, with heights getting less likely moving away from the mean in either direction.
 - b. Uniform. Any of the numbers is equally likely to occur.
 - c. Skewed right. Most players on the team make near the minimum allowed, while a few star players make exorbitant salaries.
 - d. Skewed left. Most students will get high final exam scores, with a few that may score much lower.
2.
 - a. Point B is the median. The median is the value with 50% of the area to the left and 50% of the area to the right (the equal-areas point).
 - b. Point C is the mean. The mean must be greater than the median because the density curve is skewed right.
3. No. The highest possible score is 60, which is only 0.5 standard deviations above the mean. The distribution of the number of correct guesses is likely skewed to the left.

4. a.



- b. 0.20

5. a.



- b. Approximately 95%.
- c. Approximately 16%.
- d. Approximately 81.5%.
- e. $z = 1.2$, so 1.2 standard deviations above the mean.

6. a. $\frac{33}{50} = 66\%$, $\frac{47}{50} = 94\%$, $\frac{50}{50} = 100\%$
b. Yes. The percent of heights within 1, 2, and 3 standard deviations of the mean (66%, 94%, 100%) is fairly close to the empirical rule (68%, 95%, 99.7%).
7. B
8. B
9. B