WT2019 Probability HW

Sam Bouchey¹

¹Seattle Academy

December 6, 2019

Unit 5.1

Problem 1:

- a. as the number of recorded times that Aaron has tuned into his favorite radio station increases, the percent of those times in which he tunes in to a commercial playing will approach 20%.
- b. not necessarily: each time he tunes in is a separate event, and therefore has its own .2 probability, but there is no guaranty that in 5 (or in any arbitrarily large set of repetitions) that a commercial will be playing at all.
- 5. because the percent of 3-point shots made approaches roughly 25% over time, we can reasonable conclude that the probability of making any given shot is around .25.

10.

- a. generate a random integer between 0 and 1, assume that 0 is a miss and one is in bounds.
- b. 1 in 100 trials resulted in six missed serves.
- c. 7/100
- d. not really 2/20 is a .1 probability and is the most common and median, but not the mean.

23. c.