# WT2019 Probability HW 

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## 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.

