Stat Cola versus Prob Cola. In the Statland there are only two types of Cola: Prob Cola and Stat Cola. Only 20% of cola drinkers prefer Prob Cola. Let X be the number of Stat Cola drinkers out of 4 randomly selected cola drinkers.

- Write down the probability distribution for the random variable X.
- What is the probability that $X > 0$?
- What is $EX = \mu_X$ and $\sigma_X$?

Golfer. (Practice Problem) If it is assumed that a golfer will hit a drive into a sand trap 18% of the time, what is the probability that the player will hit the ball into a sand trap

- exactly three times out of first six holes;
- What is $X$ here and what distribution does it have?
- Find $EX = \mu_X$ and $VarX = \sigma_X^2$. 
