

Step 1

057

Note Title

1/28/2011

Step 2

In many places, you see

I prefer

6

7

8

Example: 1. The mean $E(X)$ is

2. The variance $\text{Var}(X)$ is

3. The first central moment is

p58*

It is very hard to describe and convey the W.A (prob) you are using to others.

⇒ Mathematicians thus give names to some widely used W.As.

For example: ① A R.V X is

② X is a R.V.

1.

For example, ① a fair coin is

② a bent coin is a

③ Winning a lottery is

④ # of touchdowns of Purdue football team is (modeled as)

2.

Q: The score of a baseball team is
a binomial R.V with para p, n
 $E(X) = ?$ $Var(X) = ?$

Ans:

* Usually (but not necessarily), a binomial distribution models the scenario of

Q: The score of a baseball team is
a binomial R.V. with para p, n
 $E(X) = ?$ $Var(X) = ?$

w.

* The geometric RV. generally models

Q The number of cars in a parking lot
is a geometric R.V w. para p .

$$E(X) = ?$$

Ans: