

# The Binomial Process

- Introduction - The binomial process
- Distribution of the number of successes  $s$  in  $n$  trials, each with probability  $p$
- Distribution of the number of trials  $n$  needed to obtain  $s$  successes, each with probability  $p$
- Estimation of the probability  $p$  after having observed  $s$  successes in  $n$  trials
- Estimation of the number of trials  $n$  made after having observed  $s$  successes with probability  $p$
- An example of using the estimate of binomial probabilities in risk analysis