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Slide 1_Sampling

```
n=5;
p=0.4;
x=binornd(1,p,1,n);

nsim=200;
for i=1:nsim
y(:,i)=binornd(1,p,1,n);;
end;

ysum=sum(y);
sum(ysum==3)/nsim;

binornd(n,p,1,nsim)
sum(binornd(n,p,1,nsim)==3)/nsim

a=tabulate(ysum);
b=binopdf([0:n],n,p);
bar([a(:,3)/100,b'])
legend('Observed','Expected')
title('Distribution sum of Bernoulli')
xticklabels([0:5])
legend("boxoff")
```