

Related Problem with Solution :

The mean and variance of a Binomial distribution is 4 and 3 respectively. Find its parameters.

Soln :

In binomial distribution, mean = np and variance = npq

Here given $np = 4$ and $npq = 3$

So $q = 3/4$

$\Rightarrow p = 1 - q = 1/4$

$p = 4$

$\Rightarrow n(1/4) = 4$ (from above observation)

Hence $n=16$, $p=1/4$ and $q=3/4$