Introduction to Probability Supervision 1

You should define evets carefully: $S_1 = \text{Surviving the first pick}$

Give full formulae for every expression.

If you know the relation between the paramaters then you can use the uniqueness of constants to find out the constant factor rather than doing complicated multiplication.

You can work out the variance of a binomial distribution by teh sum of the variances of the invididual bernoulli trials.