

Answer on Question #53432 – Math – Statistics and Probability

A biochemist mixed 6 chemicals together in a solution and created a new synthetic drug. Unfortunately, the biochemist does not recall the order in which the chemicals were introduced into the solution. It is decided to repeat the experiment. How many possibilities are there?

Solution

If a biochemist mixed 6 chemicals together in a solution and created a new synthetic drug, but does not recall the order in which the chemicals were introduced into the solution, then if he is decided to repeat the experiment, there are $P = 6! = 1*2*3*4*5*6 = 720$ possibilities there.