1. Do you think complete bipartite graph $K_{n,n}$, where $n \geq 3$ is planar or not? Explain your answer.

2. How many bit strings of length four do not have two consecutive 1s?

3. How many simple labelled graphs are possible with n vertices? Explain your answer.

4. Determine the mean and standard deviation of the probability distribution of the upper face of a unbiased-dice be thrown.