Read Sections 9.1 and 9.2 in the textbook and answer the following questions. Hand in this worksheet at the next class.

1. What is the definition of random in our textbook?
2. What is a sample space? What is an event?
3. How is the equally likely probability formula used in Example 9.1.1?
4. What is the multiplication rule?
5. What is a permutation?
6. What is an $\boldsymbol{r}$-permutation? What does $\boldsymbol{P}(\boldsymbol{n}, \boldsymbol{r})$ mean in this context?
