

Homework 1

Probability and Statistic

Second Semester 2022-2023

$$\begin{aligned} 1- n=250 \quad r=2 \\ =250! / 2!(248!)=31125 \end{aligned}$$

$$2- 5!/(3!*2!)=10$$

$$3-2*2*2=8$$

$$\begin{aligned} 4- n=30 \quad r=3 \\ =30! / 27! =24360 \end{aligned}$$

$$\begin{aligned} 5- n=6 \quad r=3 \\ =6! / 3!*3! =20 \end{aligned}$$

$$6- P(A)=0$$

$$\begin{aligned} 7- (4c2)*(2c1)=12 \\ 4c3=4 \\ 12+4=16 \end{aligned}$$

$$\begin{aligned} 8- a) 32*(20c9)=5231680 \\ b) 2C2=1 \\ 15C4=1365 \\ (1^5)*1365=1365 \end{aligned}$$