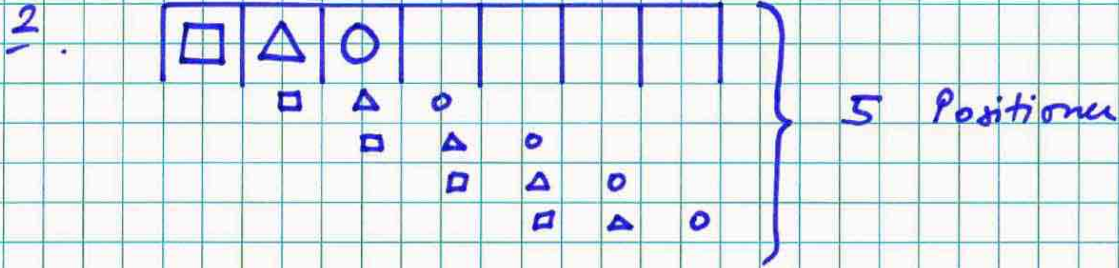
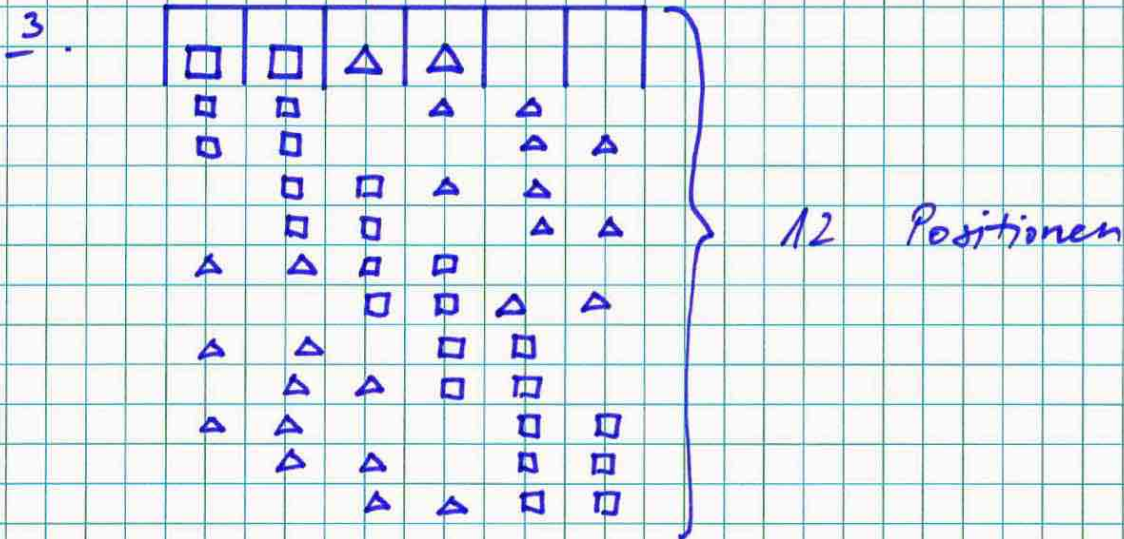


1. a.) $10 \cdot 9 \cdot 8 \cdot 7 = \underline{\underline{5'040}}$

b.) $\frac{8 \cdot 7 \cdot 6 \cdot 5 \cdot 4}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1} = \underline{\underline{56}}$



$\Rightarrow 5 \cdot 3 \cdot 2 \cdot 1 = \underline{\underline{30}}$



$\Rightarrow \underline{\underline{12}}$

4. $4 \cdot 3 \cdot 2 \cdot 1 = \underline{\underline{24}}$

14. $\frac{9 \cdot 8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{3 \cdot 2 \cdot 1} = \underline{\underline{60'480}}$

3x Buchstabe, L'

6.



$$\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{2 \cdot 1 \cdot 3 \cdot 2 \cdot 1} = \underline{\underline{60}}$$

2x, weiss' 3x, schwarz'

7.

Augensumme 9: 3/6 ; 4/5 ; 5/4 ; 6/3 .

$$\Rightarrow W = 4 \cdot \frac{1}{6} \cdot \frac{1}{6} = 4 \cdot \frac{1}{36} = \frac{4}{36} = \underline{\underline{\frac{1}{9}}}$$

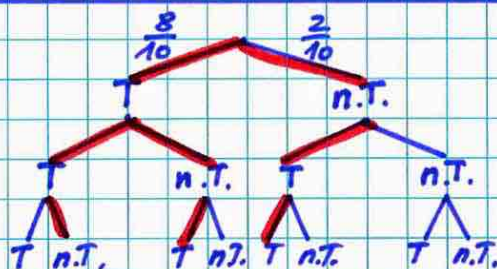
8.

Augensumme 5: 1/4 ; 2/3 ; 2/2 ; 4/1 .

$$\begin{aligned} \Rightarrow W &= 1 - 4 \cdot \frac{1}{6} \cdot \frac{1}{6} = 1 - \frac{4}{36} \\ &= \frac{36}{36} - \frac{4}{36} = \frac{32}{36} = \underline{\underline{\frac{8}{9}}} \end{aligned}$$

9.

$$\begin{aligned} W &= 3 \cdot \frac{8}{10} \cdot \frac{8}{10} \cdot \frac{2}{10} \\ &= 3 \cdot \frac{128}{1'000} \\ &= 3 \cdot \frac{16}{125} = \underline{\underline{\frac{48}{125}}} \end{aligned}$$



10.

Gegenwahrscheinlichkeit berechnen: , nie eine Sechse' .

$$\rightarrow W_G = \frac{5}{6} \cdot \frac{5}{6} \cdot \frac{5}{6} \cdot \frac{5}{6} \cdot \frac{5}{6} = \underline{\underline{\frac{3'125}{7'776}}}$$

$$\Rightarrow W = 1 - \frac{3'125}{7'776} = \underline{\underline{\frac{4'651}{7'776}}}$$