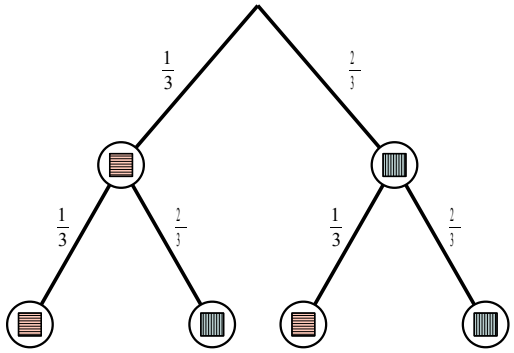
Aufgaben zu mehrstufigen Zufallsexperimenten (Lösungen)

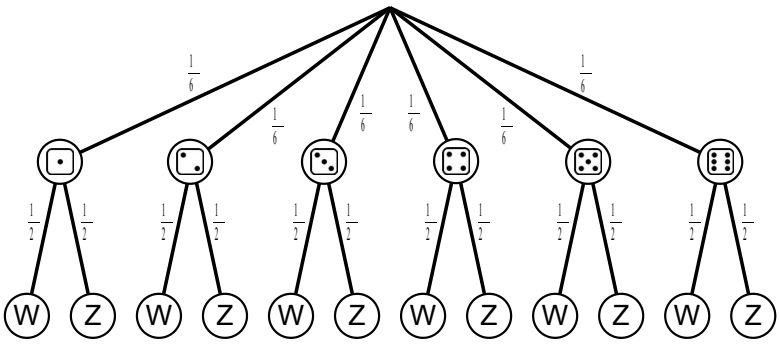
Mehrstufige Zufallsexperimente

a)

- 

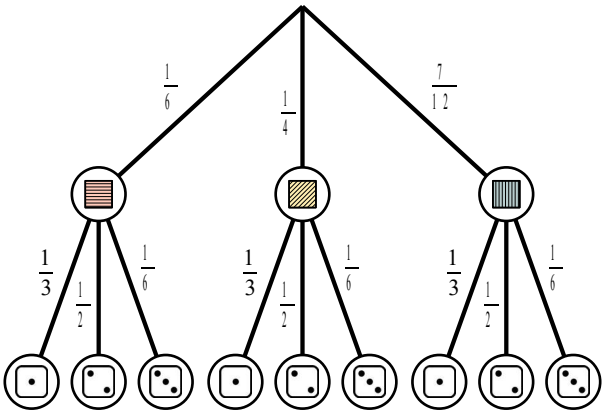
- ▭ ≙ h , ▯ ≙ v , Ω={(h,h), (h,v), (v,h), (v,v)}
- $P(\text{h,v}) = \frac{1}{3} \cdot \frac{2}{3} = \frac{2}{9}$

b)

- 

- Ω={(1,W), (1,Z), (2,W), (2,Z), (3,W), (3,Z), (4,W), (4,Z), (5,W), (5,Z), (6,W), (6,Z)}
- $P(4,\text{v}) = \frac{1}{6} \cdot \frac{1}{2} = \frac{1}{12}$

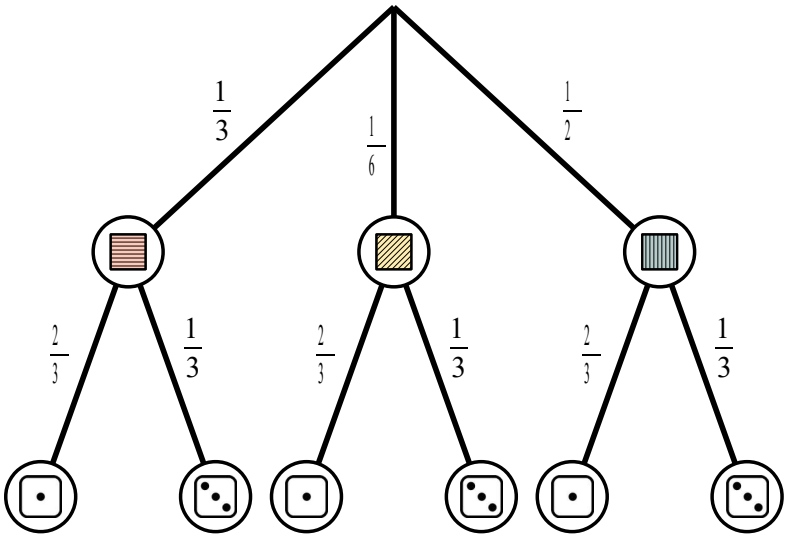
c)

- 

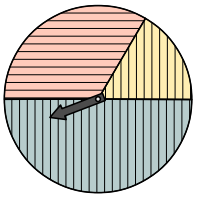
- ▭ ≙ h , ▨ ≙ d , ▥ ≙ v , Ω={(h,1), (h,2), (h,3), (d,1), (d,2), (d,3), (v,1), (v,2), (v,3)}
- $P(\text{d},2)=\frac{1}{4}\cdot\frac{1}{2}=\frac{1}{8}$

Baumdiagramm

a)



b)



c)