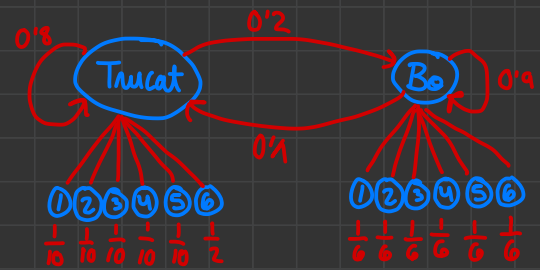
Problema 8

$P(\text{dau}=6)=0'5$
$P(\text{dau}=1)=\frac{1}{5}\cdot 0'5$
$P(\text{dau}=2)=\frac{1}{5}\cdot 0'5$

$P(\text{dau}=3)=\frac{1}{5}\cdot 0'5$
$P(\text{dau}=4)=\frac{1}{5}\cdot 0'5$
$P(\text{dau}=5)=\frac{1}{5}\cdot 0'5$



Si dau Leo $\rightarrow P(\text{canvi})=\frac{1}{10}$
Si dau Trucat $\rightarrow P(\text{canvi})=\frac{1}{5}$
$P(\text{dau inici})=0'5$

2- $P(6), P(6|Bo), P(1)$

Prob. Inicials: do Bo Trucat
0'5 0'5

$P(6|Bo)+P(6|Trucat)\cdot P(6|Bo)\cdot P(1|Bo)+P(1|Trucat)$

$$\left[0'5\cdot\frac{1}{6}\right]+\left[0'5\ 0'5\right]\cdot\left[\frac{0'9\cdot\frac{1}{6}+0'2\cdot\frac{1}{6}}{0'9\cdot\frac{1}{6}+0'2\cdot\frac{1}{6}+0'1\cdot 0'5+0'8\cdot 0'5}\right]\cdot\left[\frac{1}{6}\cdot 0'9+\frac{1}{6}\cdot 0'2\right]+\left[\frac{1}{10}\cdot 0'8+\frac{1}{10}\cdot 0'1\right]$$

$P(6), P(6|Bo), P(1)=0'187$