

$$P_{d1} = \frac{1}{3}$$

$$\left. \begin{array}{l} P_{d2} = \frac{1}{3} \\ P_{d3} = \frac{1}{3} \end{array} \right\} \frac{2}{3}$$

→ Empty

After

$$P_{d1} = \frac{1}{3}$$

$$P_{d2} = \frac{1}{2}$$

Maeve has had to show us the empty door. Since she didn't opened 1st door there's still the same propability for our door to have a reward behind (1/3), and for the other door the propability to have reward goes up