

$$P(\text{嫁}) = \frac{80}{100} \tag{1}$$

$$P(\text{矮矬穷}|\text{嫁}) = \text{已经嫁出去的女生中选择了矮矬穷的比例} = \frac{10}{80} \tag{2}$$

$$P(\text{矮矬穷}) = \text{谈婚论嫁的全部矮矬穷的比例} = \frac{30}{100} \tag{3}$$

$$P(A_1A_2A_3\ldots A_n) = P(A_1) * P(A_2|A_1) * P(A_3|A_1A_2)\ldots P(A_n|A_1A_2\ldots A_{n-1})$$