

Lösungen Einstiegsaufgabe 2

1.

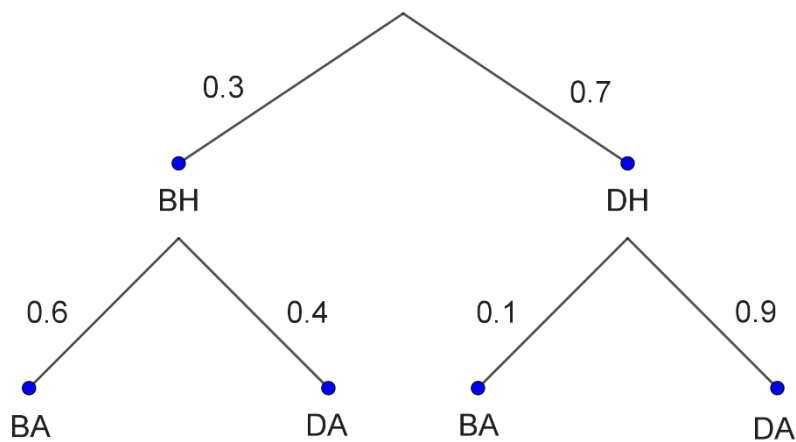
	blond (BH)	dunkelh. (DH)	Total
blauäugig (BA)	18(= 0.6 · 30)	7 (= 0.1 · 70)	25
dunkeläugig (DA)	12	63	75
Total	30	70	100

→ a) $P(DH \text{ und } BA) = P(DH \cap BA) = \frac{7}{100} = 7\%$

b) $P(BA | DH) = \frac{7}{70} = 10\%$

c) $P(DH | BA) = \frac{7}{25} = 28\%$

2.



→ a) $P(DH \text{ und } BA) = P(DH \cap BA) = 0.7 \cdot 0.1 = 7\%$

b) $P(BA | DH) = \frac{P(BA \cap DH)}{P(DH)} = \frac{0.7 \cdot 0.1}{0.7} = 10\%$

c) $P(DH | BA) = \frac{P(DH \cap BA)}{P(BA)} = \frac{0.7 \cdot 0.1}{0.3 \cdot 0.6 + 0.7 \cdot 0.1} = 28\%$