Lösungen Einstiegsaufgabe 2

1.

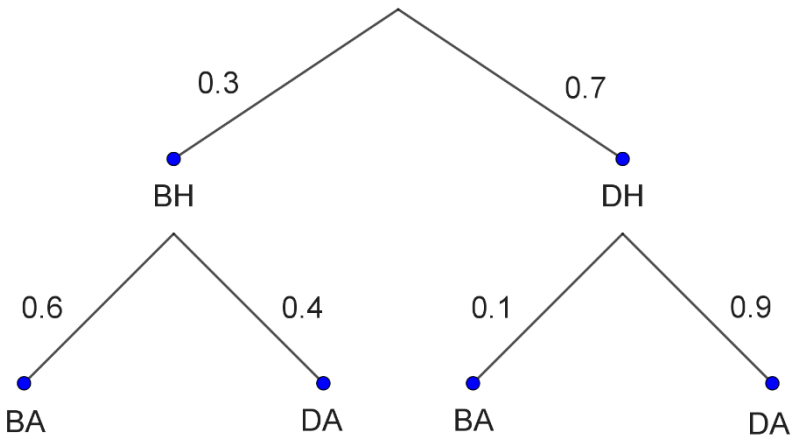
	blond (BH)	dunkelh. (DH)	Total
blauäugig (BA)	$180 (= 0.6 \cdot 300)$	$70\ (= 0.1 \cdot 700)$	250
dunkeläugig (DA)	120	630	750
Total	300	700	1000

➔ a) $p(DH\ und\ BA) = p(DH\ \cap BA) = \frac{70}{1000} = 7\%$

b) $p(BA \mid DH) = \frac{70}{700} = 10\%$

c) $p(DH \mid BA) = \frac{70}{250} = 28\%$

2.



➔ a) $p(DH\ und\ BA) = p(DH\ \cap BA) = 0.7 \cdot 0.1 = 7\%$

b) $p(BA \mid DH) = \frac{p(BA \mid DH)}{p(DH)} = \frac{0.7 \cdot 0.1}{0.7} = 10\%$

c) $p(DH \mid BA) = \frac{p(DH \mid BA)}{p(BA)} = \frac{0.7 \cdot 0.1}{0.3 \cdot 0.6 + 0.7 \cdot 0.1} = 28\%$