- 1) $P(white \ queen \ on \ a1) = \frac{1}{8}$
- * There is 1 queen and 8 pieces at all so $P(queen) = \frac{1}{8}$
- * And we consider only white pieces so P(white) = 1
- 2) We can't got black queen among our black pieces so $P(black\ queen)=0$
- 3) *P*(*rook on a*1)
- * There is 2 rooks and 8 pieces at all so $P(rook) = \frac{1}{4}$
- 4) $P(not \ white \ queen) = 1 P(queen) = 1 \frac{1}{8} = \frac{7}{8}$
- * There is 1 queen and 8 pieces at all so $P(queen) = \frac{1}{8}$
- * And we consider only white pieces so P(white) = 1

5)
$$P(not\ rook) = 1 - P(rook) = 1 - \frac{1}{4} = \frac{3}{4}$$

* There is 2 rooks and 8 pieces at all so $P(rook) = \frac{1}{4}$