



$$p(R) = 1/5$$

$$p(B) = 1/10$$

$$p(B|R) = 1/4$$

$$p(R|B) = 1/2$$

$$p(R, B) = p(B|R)p(R) = 1/20$$

$$p(R, B) = p(R|B)p(B) = 1/20$$