4R, 10G, 6Y > 3 balls without replacement W Ø. (2) 2-red & 1-green  $P(\text{all Red}) = \frac{4 \times 3 \times 2}{20 \times 19} = \frac{4 \times 3 \times 2}{19 \times 18} = \frac{4 \times 3}{19 \times 18}$ 0 0  $= \frac{1}{5} \times \frac{1}{19} \times \frac{21}{63} = \frac{1}{19 \times 15} = \frac{1}{285}$ P[ QRed & 1 green]. RGR. stamp plots 100 / 365 dine (3)

W3-100 Let R be the event it rains 365 Let Bbe the event that P(RT) ✓ it is predicted to rain. Let B be the event that it is predicted not to rain  $P(R|B) = P(B|R) \cdot P(R)$ P(B) P(B) = P(B|R)P(R) + P(B|R)P(R) $= 0.9 \times 100 / 365$ 0.9 × 100/365 + 0.1 × 265/365 0.9 × 100 0.9 × 100 + 0.1 × 265 =90 = 77.253% 90 + 2005 26.5