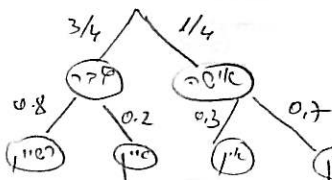


1.
(1329)



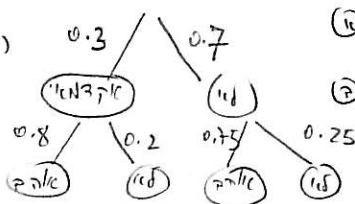
① $P(\text{רשין} \cap \text{זר}) = \frac{3}{4} \cdot 0.8 = 0.6$

② $P(\text{רשין} \cap \text{אויס}) = \frac{1}{4} \cdot 0.2 = 0.05$

③ $P(\text{רשין}) = P(\text{רשין} \cap \text{זר}) + P(\text{רשין} \cap \text{אויס}) = 0.6 + 0.05 = 0.65$

④ $P(\text{אויס}) = P(\text{אויס} \cap \text{זר}) + P(\text{אויס} \cap \text{אויס}) = \frac{1}{4} \cdot 0.8 + \frac{3}{4} \cdot 0.2 = 0.25$

2.
(1329)



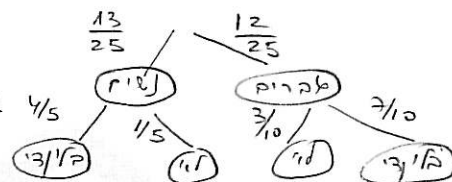
① $P(\text{רשין} \cap \text{זר}) = 0.3 \cdot 0.2 = 0.06$

② $P(\text{רשין}) = P(\text{רשין} \cap \text{זר}) + P(\text{רשין} \cap \text{אויס}) = 0.06 + 0.75 \cdot 0.7 = 0.525$

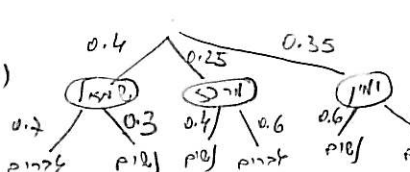
3.
(1329)

① $P(\text{האויס}) = P(\text{האויס} \cap \text{רשין}) + P(\text{האויס} \cap \text{אויס}) = \frac{13}{25} \cdot \frac{4}{5} + \frac{12}{25} \cdot \frac{7}{10} = 0.752$

② $P(\text{האויס}) = 1 - P(\text{האויס}) = 1 - 0.752 = 0.248$



4.
(1329)



① $P(\text{זר} \cap \text{זר}) = 0.4 \cdot 0.7 = 0.28$

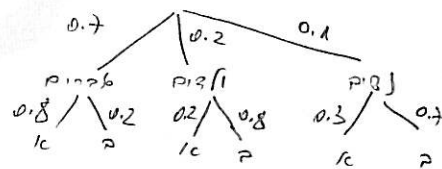
② $P(\text{זר} \cap \text{אויס}) = 0.35 \cdot 0.6 = 0.21$

③ $P(\text{זר}) = P(\text{זר} \cap \text{זר}) + P(\text{זר} \cap \text{אויס}) + P(\text{זר} \cap \text{אויס}) = 0.28 + 0.21 + 0.25 \cdot 0.6 + 0.35 \cdot 0.4 = 0.57$

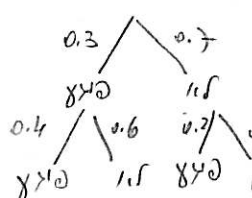
5.
(1330)

① $P(\text{זר} \cap \text{זר}) = 0.7 \cdot 0.2 = 0.14$

② $P(\text{זר}) = P(\text{זר} \cap \text{זר}) + P(\text{זר} \cap \text{אויס}) + P(\text{זר} \cap \text{אויס}) = 0.14 + 0.2 \cdot 0.2 + 0.1 \cdot 0.3 = 0.03$



6.
(1330)



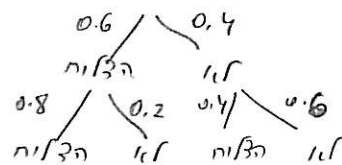
① $P(\text{זר} \cap \text{זר}) = 0.3 \cdot 0.4 = 0.12$

② $P(\text{זר} \cap \text{אויס}) = 0.7 \cdot 0.2 = 0.14$

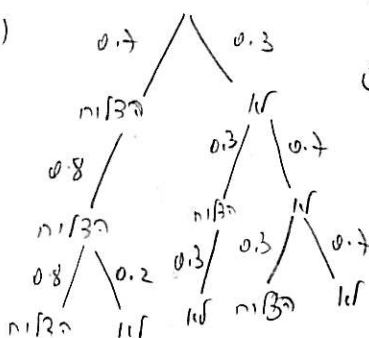
③ $P(\text{זר}) = 1 - P(\text{האויס}) = 1 - 0.7 \cdot 0.8 = 0.44$

④ $P(\text{האויס}) = P(\text{האויס} \cap \text{זר}) + P(\text{האויס} \cap \text{אויס}) = 0.6 \cdot 0.2 + 0.4 \cdot 0.4 = 0.28$

⑤ $P(\text{האויס} \cap \text{זר}) = 1 - P(\text{האויס} \cap \text{אויס}) = 1 - 0.6 \cdot 0.8 = 0.52$



8.
(1330)



① $P(\text{זר} \cap \text{זר}) = 0.3 \cdot 0.7 \cdot 0.3 = 0.063$

② $P(\text{זר} \cap \text{אויס}) = P(\text{זר} \cap \text{זר}) + P(\text{זר} \cap \text{אויס}) + P(\text{זר} \cap \text{אויס}) = 0.7 \cdot 0.2 \cdot 0.7 + 0.3 \cdot 0.2 \cdot 0.3 + 0.3 \cdot 0.7 \cdot 0.3 = 0.179$

③ $P(\text{זר}) = 1 - P(\text{האויס}) = 1 - 0.3 \cdot 0.7 \cdot 0.7 = 0.853$

④ $P(\text{האויס}) = P(\text{האויס} \cap \text{זר}) + P(\text{האויס} \cap \text{אויס}) = 0.3 \cdot 0.7 \cdot 0.7 + 0.179 = 0.326$