

1st Ü1

(1) tel 452**** all digits are equally likely
probability tel contains seven distinct digits?

$\frac{7}{10}$... probability first new digit has not yet occurred

$\frac{6}{10}$... — " — second — " —

$\frac{5}{10}$... — " — third — " —

$\frac{4}{10}$... — " — fourth — " —

$$\Rightarrow \frac{7}{10} \cdot \frac{6}{10} \cdot \frac{5}{10} \cdot \frac{4}{10} = \frac{840}{10000} = 0,084$$