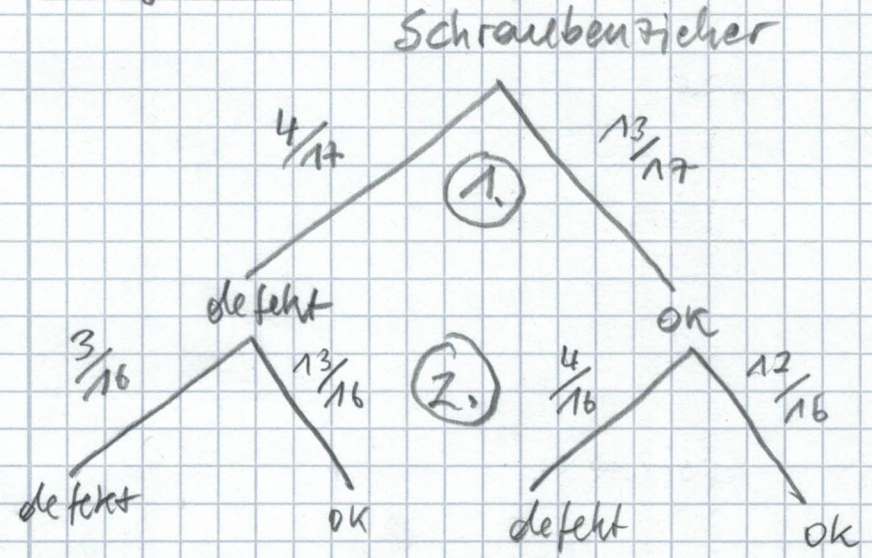
Aufgabe 5



$$P(\text{einer defekt}) = \frac{4}{17} \cdot \frac{13}{16} + \frac{13}{17} \cdot \frac{4}{16} = \underline{\underline{38{,}24\,\%}}$$

mit Formel (hypergeom. Vert.)

$$\frac{\binom{4}{1}\binom{13}{1}}{\binom{17}{2}} = \underline{\underline{38{,}24\,\%}}$$

Aufgabe 6

X ... Zeit in Minuten

$X \sim N(12, 1.5)$

a) $P(X < 14)$.

$$z = \frac{14-12}{1.5} = 1{,}33.$$

Tabelle: $\underline{\underline{90{,}82\,\%}}$

b) $P(X > 8)$

$$z = \frac{8-12}{1.5} = -2{,}67$$

Tabelle: $0{,}38\,\%$

$100\,\% - 0{,}38\,\% = \underline{\underline{99{,}62\,\%}}$