

Broze botten

1. $\begin{array}{l} 23 \text{ heupbreuken per } 1000 \text{ vrouwen} \\ 17 \text{ heupbreuken per } 1000 \text{ mannen} \end{array} \quad \left| \begin{array}{l} \text{dus bij vrouwen} \\ \frac{23}{17} = 1,35 \text{ keer zo vaak.} \end{array} \right.$

2. $\begin{array}{l} L = 65 : \quad 800 = 65a + b \\ L = 75 : \quad 750 = 75a + b \end{array} \quad \left| \begin{array}{l} b = 750 - 75a \quad \rightarrow \\ 65a - 75a + 750 = 800 \end{array} \right.$

$$a = \frac{50}{-10} = -5$$

$$b = 750 - 75 \cdot -5 = 1125$$

3. $\text{normalcdf}(-10^{99}, 650, x, 120) = 0,30 \rightarrow x = 713 \rightarrow \mu = 713$

$$\text{GB} = -5L + 1125 = 713 \quad \rightarrow \quad L = \frac{412}{5} = 82 \text{ jaar}$$

4. $\text{normalcdf}(-10^{99}, 650, 900, 120) = 0,0186$
 $\text{normalcdf}(-10^{99}, x, 900, 120) = \frac{1}{2} \cdot 0,0186$
 $x = 618 \quad \text{en dus} \quad G = 618$