

Zeep

10. $P(x < 90 \mid \mu = 93 \text{ en } \sigma = 1,4) = \text{normalcdf}(-10^{99}, 90, 93, 1,4) = 0,0161$

Sanove voldoet aan de norm want $0,0161 < 0,02$

11. $P(x < 460 \mid \mu = 5 \cdot 93 \text{ en } \sigma = 1,4\sqrt{5}) = \text{normalcdf}(-10^{99}, 460, 465, 3,13) = 0,0551$

12. $P = 2 \cdot (1/2)^{10} = 0,002$

13. $P(88,8 < x < 97,2 \mid \mu = 93 \text{ en } \sigma = 1,4) = \text{normalcdf}(88,8, 97,2, 93, 1,4) = 0,9973$

Bij 10 stukken zeep geldt: $P = (0,9973)^{10} = 0,9733$

De kans is dus $1 - 0,9733 = 0,03$