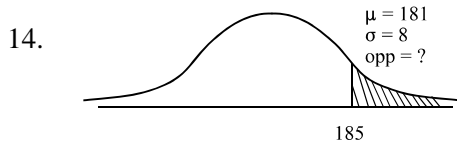


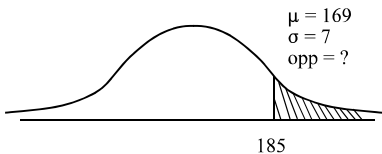
School tafels



$X =$ lengte van 17 jarige jongen

$$P(X > 185) = \text{normalcdf}(185, 10^{99}, 181, 8) \approx 0,309$$

dus 30,9%



$Y =$ lengte van 17 jarig meisje

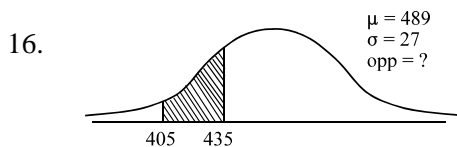
$$P(X > 185) = \text{normalcdf}(185, 10^{99}, 169, 7) \approx 0,011$$

dus 1,1%

$1,1 \cdot 30 = 33\% \neq 30,9\%$ dus de bewering is niet juist.

15. Vaasmodel met 94 knikkers:
22 rode lange en 72 witte niet-lange

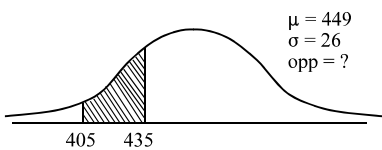
$$P(5 \text{ van de } 14 \text{ zijn lang}) = \frac{\binom{22}{5} \cdot \binom{72}{9}}{\binom{94}{14}} \approx 0,129$$



$X =$ knieholtehoogte jongens

$$P(405 < X < 435) = \text{normalcdf}(405, 435, 489, 27) \approx 0,022$$

dus 2,2%



$X =$ knieholtehoogte meisjes

$$P(405 < X < 435) = \text{normalcdf}(405, 435, 449, 26) \approx 0,25$$

dus 25%

Aantal groene tafels: $60 \cdot 0,022 + 60 \cdot 0,25 \approx 16$

17. Exponentieel: $\rightarrow b \cdot g^t$

$$g = \frac{29\,479}{25\,597} \approx 1,15 \quad \text{dus} \quad 39\,051 \cdot 1,15^t$$

in 2010: $39\,051 \cdot 1,15^5 \approx 78\,546$ euro.