

1. Given a normal distribution with mean 88 and standard deviation 95, use the `pnorm` function to calculate the probability of obtaining values between  $-27$  and  $201$  from this distribution.
2. Suppose we sample from a population with a normal distribution and mean 103 and standard deviation 5. Sample size is 95.

What is the standard error going to be when sample size is 95, and what would it be when 9025?

- (a) 0.513, 0.053
- (b) 1.0773, 0.689
- (c) 0.2565, 0.053
- (d) 0.513, 0.0265
- (e) 0.2565, 0.106