As sample size increases, the range decreases, which means variability decreases.

Variability across all possible sample sizes

Variability across smallest sample sizes

At first, results rapidly become less variable … then, the rate at which results get less variable slows down.

As we test a larger and larger sample, variability keeps decreasing, but very slowly.

The slow loss of variability continues until …

… at full size, variability is zero; results at this size never vary.