Last time we revisited the seating chart example, and asked: what is the probability that **5 or more students** sit in their assigned seat?

Bounds/approximations:

$\leq 20\%$ (Markov's inequality)

$\leq 6.25\%$ (Chebyshev's inequality)

$0.36598...\%$ (exact answer – The Truth)

$0.36598...\%$ (Poisson Approximation – accurate to 258 decimal places!!)

See emailed note for details!