

**255.** You are planning a simulation to estimate the mean of a non-negative random variable. It is known that the population standard deviation is 20% larger than the population mean.

Use the central limit theorem to estimate the smallest number of trials needed so that you will be at least 95% confident that the simulated mean is within 5% of the population mean.

(A) 944

(B) 1299

(C) 1559

(D) 1844

(E) 2213