

## Practice for Quiz 4

(The Quiz will be on Monday, April 28)

Math 125 *Kovitz* Spring 2025

A survey organization wants to take a simple random sample in order to estimate the percentage of people who have seen a certain television program. To keep the costs down, they want to take as small a sample as possible. But their client will only tolerate chance errors of  $1/4$  of 1 percentage point or so in the estimate. How large a sample should they use?

(A) 100      (B) 2,500      (C) 10,000      (D) 40,000      (E) 1,000,000

(You may assume the population to be very large.)

**The answer is on the following page.**

**Answer:**

(D)