

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)