1.2 Practice: Large Numbers [OPTIONAL]

1.2 Practice Problem 1 [OPTIONAL]

0 points possible (ungraded)

Harvard has a 32-digit billing code for all financial transactions at the University, which means there are 10^{32} distinct billing numbers. For unambiguous record keeping, each financial transaction requires a distinct billing number. Suppose there are $5,000$ employees at the University, and each employee makes ten financial transactions each day of the year. (For the purposes of this problem, we will ignore the existence of leap years.)

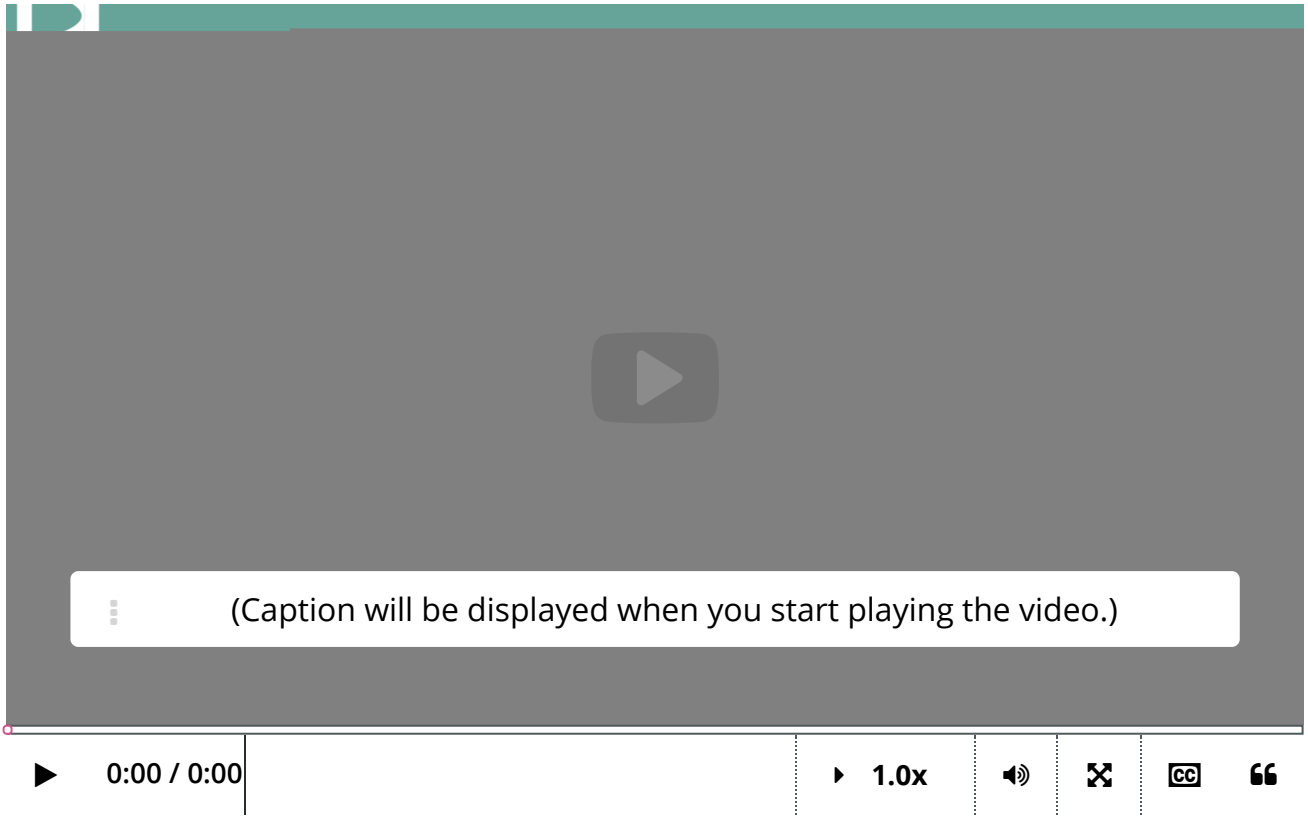
How many distinct billing numbers would Harvard need to use over a period of 400 years (the approximate lifetime of the institution)? *Choose the best answer*.

- 1.825×10^6
- 1.825×10^7
- 7.3×10^8

7.3×10^9

Submit

1.2 Office Hours for Practice Problem 1



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