

## Estimathon

### 40 Minutes in Teams of 4

1. How many “doo”s are in Baby Shark by Pinkfong. Singing aloud is encouraged!
  2. How many artifacts from the British Museum are actually British?
  3. Let  $X$  be the product of Bruno Mars’s number of monthly listeners on Spotify as of March 2025 and the mass of the planet Mars. Let  $Y$  be the product of Freddie Mercury’s (not Queen’s) number of monthly listeners on Spotify as of March 2025 and the mass of the planet Mercury. What is  $\frac{X}{Y}$ ?
  4. Moo Deng (the pygmy hippopotamus) is apparently also a cryptocurrency. What is the FDV (Fully Diluted Value = Price  $\times$  Maximum Supply) of the coin as of March 2025?
  5. How many times longer is the longest song ever than the shortest song ever (on Spotify)?
  6. Jerry is an avid player of sudoku, and is currently writing out every possible sudoku solution, where rotations and reflections are considered distinct. If he writes one number every second without taking a break, how many times the current age of the universe would this task take him?
  7. In the history of US presidential elections, what is the largest number of popular votes won by the winner divided by the least number of popular votes won by the winner?
  8. Mary’s favorite animal is a fox, so how many minutes did people spend on Fox News (across all platforms) in 2024?
  9. How many Canadian lakes have a surface area greater than 3 square kilometers?
  10. How many ping-pong balls can fit into the interior of the Empire State Building?
  11. Suppose a monkey randomly presses a letter, number, or punctuation mark on a keyboard every second until they have typed the Bible continuously (all the characters must appear consecutively). If we let  $x$  be the expected number of seconds this takes, what is  $\log_{10}(x)$ ?
  12. How many paperclips would it take for their total mass to equal that of the Eiffel Tower?
  13. I put all the above Estimathon questions into ChatGPT. What is the total number of characters in ChatGPT’s response?
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