

CK Estimathon - 2024

1. How many McDonalds are there in Vietnam? (20)
2. How tall is the tallest building in Michigan in feet? (727)
3. What is the annual financial aid budget of Cranbrook Schools in dollars (Pre-K to 12)? (\$10,308,560)
4. How many views is the most viewed video on YouTube? (14,048,096,592)
5. What is the 2024th prime number? (17599)
6. Lake Erie is one of the five Great Lakes, and it is located south to Detroit. What is the volume of Lake Erie in cubic miles? (approx. 115.2 cubic miles)
7. How many pyramids are in Egypt? (118)
8. How far is the Sun from the Earth in miles? (93 million miles)
9. What is the total passenger count of DTW (Detroit Metropolitan Wayne County Airport) in 2022? (Total Passengers is defined as the number of passengers traveling outbound and inbound) (28,160,572)
10. Alaska is the largest state in the United States. Rhode Island is the smallest state in the United States. How many Rhode Island(s) can you fit in Alaska? (546)
11. The current world population is over 8 billion. What was the world population in 1974, or 50 years ago? (3,995,517,077)
12. Suppose you slice a stick with length of 1 into 3 slices, at random. You keep the longest slice. What is the expected length of the slice? ( $11/18 = 0.6111111\dots$ )
13. For non-poker-enthusiasts, Royal Straight Flush is when one can make a 5 deck card set with the same suit, of rank A, K, Q, J, 10. Suppose there are a total 7 cards given to you: 5 common cards and 2 on your hand. The probability of getting a Royal Straight Flush is  $1/m$ . What is the value of  $m$ ? (30940)

