

Estimathon 1

Nikita

Problem 1.

What is 3^{3^3} ?

Problem 2.

What is the farthest from any land one can be in the ocean (in miles)?

Problem 3.

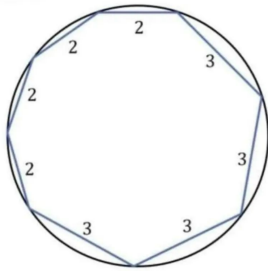
What is the number of ways to tile the 4×4 square with 1×2 and 2×1 dominoes?

Problem 4.

What is the population of Brazil?

Problem 5.

What is the area of the octagon?



Problem 6.

What is the mass in kilograms of the International Space Station?

Problem 7.

Cryptarithm: $SKIRT + TSHIRT = CLOTHES$.

Find $SKIRT \times TSHIRT \times CLOTHES$.

Problem 8.

What is the cost of the most expensive single McDonalds item in the world (in dollars as per 2021)?

Problem 9.

What is $\sqrt[100]{2} - 1$?

Problem 10.

What is the number of stations in the entire New York subway system? Transfer stations count as multiple stations.

Problem 11.

What is the number of ways to split the set $\{1, 2, 3, \dots, 10\}$ into sets of equal size?

Problem 12.

What is the number of missed free throws in Shaquille O'Neal's NBA career?

Problem 13.

What is the median (i.e. the average between the 6-th greatest and the 7-th greatest) of the answers to the first 12 problems.