GRAVITY TEAM

Gravity Team Task

1. Imagine you are on the equator. You go 1000 km to east then 1000km to north then 1000km to west then 1000km to south. Assuming earth is a perfect sphere and equator is 40000 km, how far from the original location (in kilometers) are you?

2. Sports betting site gives you payouts for a football match.
   - ❖ TeamA win   -> 1.2
   - ❖ Draw   -> 19.2
   - ❖ TeamB win   -> 6.4

   Given this information, what are expected probabilities:
   - TeamA win
   - Draw
   - TeamB win

   What is a betting site's profit margin (assuming it's equal for all outcomes)?

3. Take binance.com trading platform, ETH/USDT SPOT trading pair.
   What is the average trade price, weighted by ETH amount, in January 1st 2023 UTC time.
   (hint: sum of first 8 digits after comma should be 37)

4. Sum of all digits of all natural numbers $[0; 10^{12}]$ inclusive.

What gets evaluated

- Correct answers

How to submit answers

- Send answers as a reply to the email where you received the task or submit them by sending to lasma@gravityteam.co