

FERMI

Montgomery Science Olympiad

Score: ___/100

50 Minutes

Name: _____

1. What is the mass in kg of all the salt in the Earth's oceans? (5 Points Max)

2. How many cows currently exist? (5 Points Max)

3. How long in seconds will Usain bolt take at his peak speed to reach the surface of the moon from the surface of the earth? (5 Points Max)

4. What is 2^{39} ? (5 Points Max)

5. Approximately how many commercial airplanes are in the sky over the US right now?
(5 Points Max)

6. What is the probability of one of those planes crashing? (5 Points Max)

7. The probability of dying in an aviation incident? (5 Points Max)

8. How many gallons of water will have poured from Niagara falls in one hour? (5 Points Max)

9. Based on the water content of humans, how many people would it take to equal the amount of water poured in that time? (5 Points Max)

10. Ratio between US GDP and Monaco's GDP? (5 Points Max)

11. How rapidly does human hair grow in miles per hour? (5 Points Max)

12. On average, how many 911 calls are made in the US per year? (5 Points Max)

13. How many human cells are there in the United States? (5 Points Max)

14. How many centuries ago was the first chair invented? (5 Points Max)

15. How many on-demand audio streams did Post Malone's sophomore album, beerbongs & bentleys, receive on its first week? (5 Points Max)

16. Within the last second, how much money did Google just make? (5 Points Max)

17. How many people log in to play fortnite every month? (5 Points Max)

18. In comparison, in 2018, how many people logged in to play Minecraft every month? (5Pts)

19. If I were to stack Blu Ray discs on top of one another, how many would I need to equal the height of the Burj Khalifa? (5 Points Max)

20. On a scale from 1-10, how difficult is this exam? (5 Points Max)