

Fermi Questions Test

Student Names: _____

School Name/Team Number: _____

1. If the US National Debt is payed off in pennies, how much would it weigh in kilograms?
2. What is 75^{25} ?
3. How many protons would it take to cover the distance from the Earth to the Sun?
4. How many pieces of paper needed to cover the entire Pacific Ocean with one layer?
5. How many times does the ISS orbit earth in a year?
6. What is the number of casualties in war since World War 1?
7. How many liters of air are inhaled by all the House of Representatives in one day?
8. How many words are there in the Oxford English Dictionary?
9. If Usain Bolt ran his top speed, how many hours would it take him to run one light year?
10. What is the mass of an electron in kilograms?
11. How many dollar bills does it take to stack up to the height of the tallest building?
12. How many milliliters of saliva does one person produce in a week?
13. How many students take the SAT in a year?
14. How fast does the sloth walk in mph?
15. How many songs have been officially released in the world?
16. What is the width of a human hair divided by the wavelength of red light?
17. How many drops of water are in Lake Superior?
18. What is the weight, in Newtons, of all the people on Earth?
19. How many gas molecules are in the room?
20. What is the life expectancy of an average female in seconds?
21. What is the ratio of the height of Statue of Liberty to the height of Olympus Mons?
22. How many grains of rice is in a 20 kg bag?
23. How long is the US-Mexico border in centimeters?
24. How many milliseconds does it take for sunlight to travel to the Earth?
25. How many piano tuners are there in the world?
26. How many words are in the Constitution (including the amendments)?
27. How many combinations are there for a 3x3 Rubik's Cube?
28. How many combinations are there for a 4x4 Rubik's Cube?
29. How many division B and division C Science Olympiad teams are there?
30. In the order Hemiptera, how many species are there?
31. What volume of liquid mercury is needed to fill the mass of planet Mercury?
32. If you never cut your nails from when you were born, how long in meters would they grow up to until your death?
33. How many students, on average, fail the AP Chemistry test?
34. What is the thickness of graphene in meters?
35. How many search results show on Google when you type in "Science Olympiad"?

Answer Sheet

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Answer Key

1. 11
2. 47
3. 26
4. 15
5. 4
6. 8
7. 6
8. 5
9. 11
10. -30
11. 7
12. 4
13. 7
14. -1
15. 9
16. 2
17. 20
18. 12
19. 28
20. 9
21. -3
22. 6
23. 8
24. 5
25. 4
26. 4
27. 19
28. 46
29. 4
30. 5
31. 19
32. 1
33. 5
34. -10
35. 7