

Fermi Captains Exchange
Boca Raton Community High School
 Total: _____/205

<u>Question</u>	<u>Answer</u>	<u>Points</u>
1. How many molecules of hydrogen make up the sun?		5 3 1 0
2. How many base pairs comprise the DNA in all of the cells in the human body combined?		5 3 1 0
3. How many pizza boxes would one need to make a stack the height of the Leaning Tower of Pisa?		5 3 1 0
4. How many dead skin cells are shed by all the people on Earth each year?		5 3 1 0
5. If ten six-sided dice were to be rolled simultaneously, how many combinations would be possible?		5 3 1 0
6. How many text messages are sent worldwide each year?		5 3 1 0
7. Evaluate $32!$		5 3 1 0
8. How many steps are taken by the average person in their lifetime?		5 3 1 0
9. How much time has passed since the extinction of the dinosaurs, measured in lengths of the Han dynasty in China?		5 3 1 0
10. What is the distance between the sun and Betelgeuse, measured in angstroms?		5 3 1 0
11. What fraction of an orbit does Jupiter complete around the Sun in 1 picosecond?		5 3 1 0
12. How many kilograms of apples would the average person need in order to eat one each day, assuming they started the day they were born and stopped the day they died?		5 3 1 0
13. How many bottles of nail polish would be needed to paint the area of the interior walls and bottom of an olympic sized swimming pool?		5 3 1 0
14. Divide the number of bacteria on the average desktop by the number of bacteria on the average toilet seat.		5 3 1 0
15. How many times does lightning strike Earth each minute?		5 3 1 0
16. How many people were born on April 1?		5 3 1 0

17. How many zeros are in a googol?		5 3 1 0
18. How many breaths do you take in one day?		5 3 1 0
19. How many steps are in the Eiffel Tower?		5 3 1 0
20. Assuming an average pace of 1 ft/sec, how many jiffys would it take to dig a hole to the center of the Earth?		5 3 1 0
21. What is $3^{41}/4^{21}$?		5 3 1 0
22. How many dollars are 50,000 japanese yen?		5 3 1 0
23. Out of all miles travelled by vehicles in the US, how much of that was buses?		5 3 1 0
24. If a life size replica of the titanic was filled with honey, how much would it way in mg?		5 3 1 0
25. How many books are in the three largest libraries, by number of books?		5 3 1 0
26. If the tallest building in France was composed of the same mass of blueberries instead of metal, how many blueberries would this building be made out of?		5 3 1 0
27. Speaking of blueberries, how tall is Mario from Super Mario in cm?		5 3 1 0
28. How many fingers am I holding up on my right hand (if the thumb isn't a finger and I'm holding up >0 finger(s))?		5 3 1 0
29. What would the value of all the words in this question be if we were playing Scrabble™?		5 3 1 0
30. If you have two eyes but I only have one, how many more cone cells do you have?		5 3 1 0
31. How many days will occur on the twelfth day of September in the year 43539875279 AD?		5 3 1 0
32. How many robberies occur each year in Iowa?		5 3 1 0
33. What is the average SAT reading score in Wisconsin?		5 3 1 0
34. How many times taller is a Boeing 767 than a Boeing 747?		5 3 1 0
35. What fraction of people living in Spain live in Madrid?		5 3 1 0
36. At what age are the most people named Jessie?		5 3 1 0

37. How many more rebounds per game did Shaq have in 2002 than Yao Ming did?		5 3 1 0
38. If every website generated a mole of water every second for 20 years, how many molecules of water would be formed?		5 3 1 0
39. How many iterations of question 38 would be necessary to fill the oceans?		5 3 1 0
40. How many pounds of blueberries would be produced in the time necessary for question 39 to occur?		5 3 1 0
41. How many Calories will you burn if you bang your head against a wall for a year after realizing you'll never get to eat all those blueberries?		5 3 1 0