**Fermi Questions**
**Name:**

Please show your work in the space provided.

| | Answers |
|---|---|
| 1. Distance from Earth to Proxima Centauri, in meters | |
| 2. Number of atoms in human body | |
| 3. Number of golf balls that can fit inside the Earth | |
| 4. Number of trees on Earth | |
| 5. Number of humans that have ever lived | |
| 6. Number of seconds your mom has lived | |
| 7. Number of gas molecules you have breathed in your life | |
| 8. GDP of entire world, in USD. | |
| 9. How many red blood cells are needed to blanket the surface area of a ping pong ball? | |

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| 10. How many board game dice would fit in Lake Superior? | |
| 11. What is the diameter of a 22 caliber bullet divided by the length of an average red ant? | |
| 12. What is $4^{35}$? | |
| 13. How many more times more expensive is a functional fifteen-year-old car than a toothpick? | |
| 14. How many birch pollen grains would weigh as much as a US dollar coin? | |
| 15. How many red blood cells would fill the Indian Ocean? | |
| 16. How many single Carbon-Carbon bonds would span the entire diameter of Jupiter? | |
| 17. What is the volume of the Milky Way, in cubic meters? | |
| 18. How many fleas laid head-to-tail would equal the circumference of the Large Hadron Collider? | |
| 19. How many times longer is the depth of the depth of the Challenger Deep in the Mariana Trench than the height of the Niagara Falls? | |
| 20. How many blue whales lined head-to-tail would equal the diameter of the moon? | |