

School Name _____

Team Designation _____

Your Names _____

PLEASE **PUT YOUR ANSWERS ON THESE SHEETS** TO THE LEFT OF THE QUESTION NUMBER.

1. How many inch-worms will be needed to circle the Earth's equator?

2. How many sheets of paper, laid flat, will it take to reach the moon from the Earth?

3. Under favorable conditions, E. Coli will reproduce in 6 minutes. Assuming they don't die, how many E. Coli can claim the same ancestor after 1 day?

4. What volume, in cm^3 , will the E. Coli occupy after 20 hours?

5. How many drops of water are needed to fill a 25meter swimming pool?

6. How long, in days, would it take the fastest person, running non-stop, to go from Wilmington to San Francisco?

7. What fraction of volume does one water molecule occupy in one cup?

8. How many grams of steam would be needed to melt a cubic foot of ice?

9. What is the mass, in grams, of an iron atom?

10. If he could do it continuously, how many times could a basketball player bounce a ball during his teenage years?

11. How many grams would a piece of spaghetti weigh that could circle Delaware?

12. How many electrons pass through a lighted bulb in a day?

13. What is the mass, in kgrams, of the moon?

14. How many words are there in one issue of the Evening Journal?

15. According to scientists, how old, in days, is the Grand Canyon?

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16. How many different five card poker hands can you make from a 52 card deck?

17. How many toothpicks could be made from a telephone pole?

18. How fast, in cm/sec, does a hydrogen molecule move at STP conditions?

19. How many molecules are in a grain of beach sand?

20. Since the invention of the automobile, how many people have died in the United States as a result of car accidents?

21. If \$1 was deposited in a savings account on July 4, 1776 at a guaranteed rate of 5% and no money was withdrawn, how many dollars are in the account today?

22. How many atoms are on the surface of a grape?

23. How many carbon atoms are in a 1 carat diamond?

24. How many oranges have to be squeezed to fill a 50 gallon drum?

25. How many ants would weigh a ton?

26. How many seconds would it take for a camera flash to reach Pluto from the Earth?

27. How many seconds would it take the sound from a volcano's eruption to travel around the Earth?

28. What is the area of Delaware in square meters?

29. How long, in meters, is the length of a polio virus?

30. On the average, how many people are born each day in the United States?

