*MAKING STUFF FASTER*

1. What is the name of the ship for the U.S.’s entry into the America’s cup? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. The limit to how fast all things can go is determined by two factors.

#1:

#2:

1. The Oracle takes 15 mph of wind and turns it into \_\_\_\_\_\_\_\_\_\_mph.
2. The Oracle’s 131-foot high sail is made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. When the pressure is greater under a curved surface it creates \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. S.M.U. Professor Peter Weyand believes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the key to speed.
5. The running lab shows the average time spent repositioning limbs in between steps is \_\_\_\_\_\_\_\_\_\_\_.
6. How much force does David generate when running? \_\_\_\_\_\_\_\_\_\_\_\_. Don? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
7. How much time did David shave off with his second sprint? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
8. At 20 mph, how many watts of power are produced on a bicycle? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. How is a recumbent bicycle different from a traditional bicycle? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
10. How does it help you go faster? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
11. What is the new world record for the Velox3? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
12. The 1972 Datsun beats the 1971 Skylark with a time of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
13. What type of battery is used to power the Datsun? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
14. The battery pack generates \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ horsepower or \_\_\_\_\_ % more than the muscle car.
15. How many miles is the White Zombie able to travel on a single charge? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
16. How many packages a day does UPS deliver? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
17. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ problem is a math problem that solves the most efficient way to visit locations.
18. At 25 locations, there are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ different ways to visit them all.
19. The world’s largest computer is named \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
20. Jason Steffen is looking for the fastest way to load an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
21. His method is to use what method for loading passengers? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
22. Doug Lawson’s method to load passengers is to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
23. Whose method was faster? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
24. Computers do how much of the work at the Tradeworx headquarters? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
25. Buy and sell orders used to be sent over cable made from what metal? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
26. In the 1980’s, that cable was replaced by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cable.
27. The speed of light in glass is slower than the speed of light through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
28. As of the release of the video, where was the fastest internet connection in the US? \_\_\_\_\_\_\_\_\_\_\_\_.
29. Why does internet signal slow down when it travels from the fiber optic line to your house? \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.