The Universe: How Big, How Far and How Fast

1. In the observable part of the Universe, there are how many galaxies?
2. How fast is the earth orbiting the sun?
3. True or False: Numbers like millions, billions, and trillions are hard for people to understand.
4. True or False: Bigger always means more massive.
5. The Sun is how many times more massive than Jupiter?
6. The monster truck and junk car represent which stars?
7. Regulus is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_times more massive than our Sun.
8. According to the video, the most massive star we know is how many times more massive than our Sun?
9. You mash 10,000,000 monster trucks into the size of a sugar cube. Putting sugar cubes together, how big a stack of cubes would be needed to equal a neutron star? (Answer in height and wideness)
10. How much more would you weigh on a neutron star than on Earth?
11. How long would it take a passenger jet to circle fully VY Canis Majoris once?
12. If the Earth were the size of a basketball and the moon the size of a tennis ball, how far would it be from the basketball?
13. If the Sun were the size of a bowling ball, how far away would Mercury be from the Sun?
14. If the Sun were the size of a bowling ball, how far away would Earth be from the Sun?
15. If the Sun were the size of a bowling ball, how far away would Mars be from the Sun?
16. If the Sun were the size of a bowling ball, how far away would Jupiter be from the Sun?
17. If the sun were the size of a bowling ball, how far away would Neptune be from the Sun?
18. True or False, if light were bouncing between LA and NY, it could do 38 bounces in one second.
19. How fast is the Sun going around the galaxy?
20. The distance to the Andromeda Galaxy is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_light years.
21. If the Milky Way were scaled to be Los Angeles, one hundred miles across, where would the Andromeda Galaxy be? (According to the video)
22. True or False, the Milky Way and Andromeda galaxies will eventually collide.