

My daughter's birthday was last week. She is eleven years old now. I know that doesn't have anything to do with the school, but it is my news. She is getting taller. My dad thinks she will be taller than me one day, but I doubt¹ that. What do you think? Do you remember when you were eleven years old? The junior high school students probably remember more easily than the high school students because they are closer to eleven. What about the teachers that read this? Do you remember when you were eleven years old? I don't. I remember my tenth birthday and my thirteenth, but not my eleventh. My memory is getting bad these days.



9 differences

Last week's answer



Something you didn't know about Ferris Wheels²

1. The Ferris Wheel was invented in 1893 by George Washington Gale Ferris, which is why it is called a Ferris Wheel. He was a bridge builder and he made the first Ferris Wheel at the Chicago's World Fair. He wanted to build a structure that would rival³ the Eiffel Tower, which had been made for the 1889 World's Fair⁴ in Paris.
2. The first Ferris Wheel had 3000 of Thomas Edison's new lightbulbs⁵ on it.
3. The world's tallest Ferris Wheel is in Dubai. It is 250 m high.
4. The fastest Ferris Wheel was built in 1984. It was 55 m high and it made 1.5 revolutions⁶ every minute.
5. George Ferris sadly died of typhoid fever⁷ when he was only 39 years old.

A Spokeless Ferris Wheel

South Korea is about to start building the world's first spokeless⁸ Ferris Wheel. A Ferris Wheel is sometimes called a big wheel because it is a very big wheel that you can ride on. They have cars hanging⁹ off the wheel that you can ride in. You get on at the bottom, do one revolution, and then get off again. The spokes are the metal bars that go from the center of the wheel to the edge to support it. You can see spokes if you look at your bicycle wheel. If your bicycle wheel didn't have spokes, the wheel would collapse¹⁰. All Ferris Wheels have very large and strong spokes that go from the center of the wheel to the edges¹¹. Well, South Korea is going to build the first Ferris Wheel that doesn't have spokes. The Ferris Wheel will be called the Twin Eye and it will be 180 meters tall. For comparison, the Sapporo TV Tower is 147 m tall. The Twin Eye will have two large rings that are connected for support. Each ring will have a rail inside it and the Ferris Wheel cars will travel around on this rail. There will be 64 capsules and the Twin Eye will be able to carry 1,400 people at the same time. The Twin Eye will be finished by 2028, so, if you are planning a vacation, you can think about going to Seoul. They are also going to make a new part of their subway line so that you can get there and there will be a zip line running from the top of the Twin Eye. That sounds pretty scary. What do you think?



- 1.doubt~を疑う 2.Ferris Wheel 観覧車 3.rival 競争する 4.World's Fair 世界博覧会 5.lightbulb 電球 6.revolution 回転 7.typhoid fever 腸チフス 8.spokeless 輪止めがない 9.hang つるす 10.collapse 倒れる 11.edge 端



World record

Do you like Formula 1 racing? I do. The drivers drive their cars around a track that is usually about 6 km long and they do about 60 laps. They cannot carry enough fuel¹ for the whole race and their tires won't last that long, so they have to stop once or twice during the race to change. They come into the pit² and this is called a pit stop. The pit stop teams practice over and over to be able to change the tires and refuel the car as quickly as they can. How long do you think it takes them? For example, it takes me about one hour to change summer tires to winter tires on a car. The team McLaren pit crew managed to change the tires and refuel their driver's car in 1.8 seconds! 1.8 seconds!! It took me longer than 1.8 seconds to type 1.8 seconds!!!!



**Don't find fault³, find a remedy⁴:
anyone can complain⁵. – Henry Ford**

One thing we can do to help the environment

#15 Eat Less Meat

This one is something I don't think I will be able to do. I know that beef cattle are a huge cause of global warming gases, but I love meat so much. There are several reasons why meat, especially beef, is bad for the environment. The first reason is because of where it is grown. A large number of the cows that end up in our hamburgers are farmed in countries like Brazil. They are more profitable⁶ than the rainforest, so the trees are cut down to make space to graze⁷ the animals. That is not the only problem. 36% of all of the farmland in the world is used to produce the food that feeds all of the animals that we eat. As the world population goes up, we will need that land to feed people. Cows also need a lot of water. To make 500 g of meat for a hamburger takes 2,271 liters of water. On top of that, there is the CO₂ used when transporting the animals and the meat. And, of course, cows release a large amount of methane⁸, which is a greenhouse gas. So, we should cut down on meat. If, like me, you don't want to give up meat, there are some options that are appearing. Many companies are trying to make meat from vegetables and other products. One company has made a burger that they call the impossible burger. It is made of plants, but it also contains heme⁹, which is the molecule¹⁰ that makes blood red and makes meat taste like meat. I really want to try this burger and cut down on meat.



1.fuel 燃料 2.pit ピット 3.find fault 欠点を見つける 4.remedy 解決策 5.complain 文句
6.profitable 利益になる 7.graze 草を食う 8.methane メタン 9.heme ヘム
10.molecule 分子