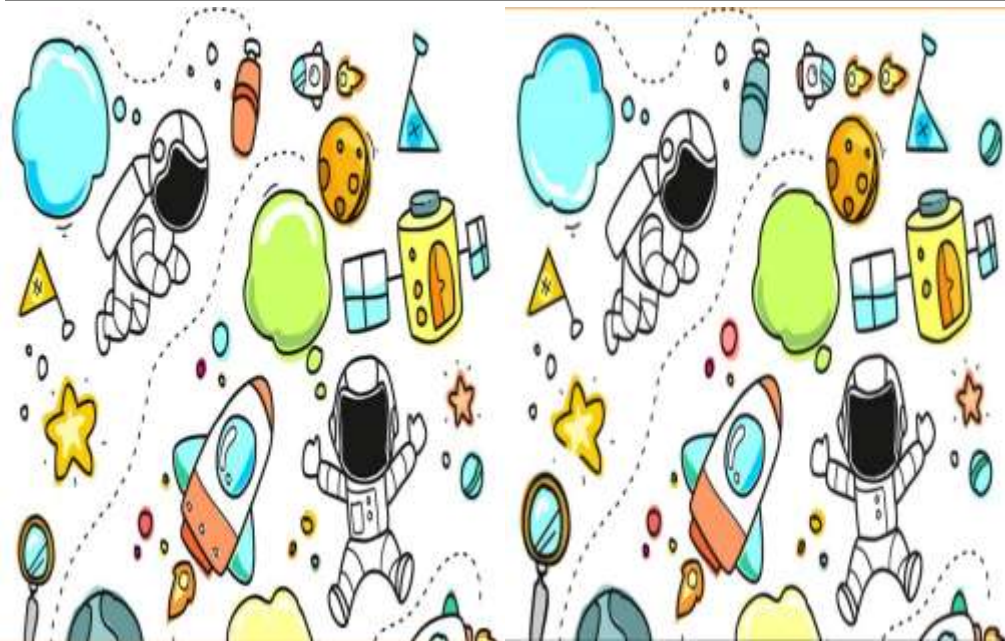


Did you enjoy the high school festival last week? I thought it was wonderful, but I only saw it on Saturday because I went to Otaru with the junior high school third grade. That was a lot of fun as well, but it was very hot. The first grade went to JICA and the second grade went to Upopoi. Everybody had a lot of fun. I thought there were a lot of very interesting displays at the school festival. Everybody put a lot of imagination in to it and came up with some fun ideas. I always like the displays that are interactive¹. My daughter came on Saturday as well and she liked it a lot. She always buys lots of stationery² in the bazaar. Did you buy anything?



15 differences

Last week's answer



Something you didn't know about 3D printing:

1. 3D printing has been around for longer than we think. It was invented in 1983.
2. It is possible to 3D print bones and prosthetic limbs³.
3. It is also possible to 3D print other body parts. Researchers in a university managed to 3D print an artificial cornea⁴ for an eye. Other researchers were able to make kidney tissue⁵, skin, and blood vessels.
4. 3D printing can make space travel easier because when parts break, new parts can be 3D printed.
5. A company called Novameat 3D printed a steak. They made a meat paste from rice, seaweed, and legumes⁶ and 3D printed it. Healthy, but tasty?

3D Printed Schools

Maggie Grout has started a nonprofit organization called Thinking Huts. She is living and working in Madagascar. The most amazing thing is that Maggie is only 23 years old! So, what is she and her NPO doing? She is 3D printing schools. She came up with the idea for her nonprofit⁷ organization when she was only 15. Her dad had started a tech-company and she wanted to do something similar, but to help people. She learned about 3D printing, and she realized she could use that to help build schools. After university, she looked for somewhere she could start, and she decided on Madagascar because there are no armed conflicts⁸ there, and the government is very welcoming of foreign help. Madagascar has poverty⁹, not much infrastructure¹⁰, not enough schools, not enough teachers, and 97% of ten-year-olds can't read. She teamed up with an architect and they decided to make buildings. Maggie shipped 3D printers from America to Madagascar in a shipping container. They fill the 3D printer with a mixture of cement, and it starts to make the walls. It leaves spaces for the doors and windows that they fit later. Maggie uses as much local labor and skill as she can, but she has found that a lot of people are not educated enough to use the equipment. She has started by teaching



the local communities how to do it. She hopes that she will raise the level of skill in the community and give them a school where they can teach the children. She knows that the government cannot supply enough teachers, so she is teaching the teachers as well. She hopes that her NPO will be able to move to other towns and keep making schools.



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- 1.interactive 双方向 2.stationery 文房具 3.prosthetic limb 義肢 4.artificial cornea 人工角膜 5.kidney tissue 腎組織 6.legume マメ科植物 7.nonprofit 非営利の 8.armed conflict 武力紛争 9.poverty 貧乏 10.infrastructure 基盤



World record

There are many people in the world that have Guinness World Records. I would like to get one myself and I think we'd be able to get one at school if we tried. This week, I want to tell you about Ashrita Furman. He is 68 years old and he comes from New York. He has the Guinness World Record for having the most Guinness World Records! Yes, you read that right. In his lifetime he has set over 600 world records and he currently holds 530 world records! Here are some of the records he holds. The record for the largest pencil (23 m). The record for the longest underwater juggling (48 minutes). The record for the longest distance balancing a milk bottle on your head (128 km). The record for the highest mountain climbed on stilts¹ (2864 m). The record for the longest time pogo stick² jumping underwater (3 hours 40 minutes). The record for the longest distance running while juggling (80 km). If you want to see the rest of his records, look at his homepage. www.ashrita.com/records



In a world where you can be anything, be kind. – Jennifer Dukes Lee

An invention – Play-Doh

I'm sure all of you played with Play-Doh when you were small. My daughter did and I know that I did. Did you know that Play-Doh was invented by accident³? It was invented by Noah McVicker and his nephew⁴ Joe McVicker in the early 1950s. Noah McVicker worked for a company called Kutol Products. They made soap and cleaning products⁵. They were asked to make a product that could clean coal⁶ off wallpaper. Many houses were heated by open fireplaces and the smoke came into the house, putting coal on the wallpaper. Noah McVicker invented a putty⁷ that could be used to clean the wallpaper. However, in the late 1940s, many houses were switching to gas heaters and cookers, which didn't make the wallpaper dirty. Kutol Products couldn't sell the putty and were going to go bankrupt⁸. Noah McVicker's nephew Joe, joined the company to try and help it. His sister-in-law⁹, Kay, was a kindergarten teacher. He gave some of the putty to his wife and she took it to her kindergarten. The children loved playing with it and Joe McVicker realized they could sell the wallpaper cleaning putty as a toy. They started to make it as a toy. Joe and his uncle¹⁰ wanted to call it "Rainbow Modeling Compound", but Kay came up with the name "Play Doh". They started to sell it in 1956 and it was instantly popular.



- 1.stilts 竹馬 2.pogo stick ホッピング 3.by accident わざとじゃない 4.nephew おい
- 5.product 品 6.coal 石炭 7.putty 仕上げ用上塗りしっくい 8.bankrupt 破綻した
- 9.sister-in-law 義理の姉 10.uncle おじさん