

GAP FILL "IBS makes 'next-generation' microchip"

Computers, tablets and smartphones can do more and more (1) things these days. Fifteen years ago, they were not powerful enough to store movies or play high- (2) definition games. Computer chip technology has advanced at a (3) fast rate. We can now stream movies on our smartphones and store huge (4) amounts of data. IBM has announced it has made a significant (5) breakthrough in microchip power. It has created chips that improve performance by 45 per cent. Its new chips also use 75 per cent less (6) energy. This is good for the environment, and means batteries will be more energy (7) efficient. The technology could quadruple mobile phone battery life. We might only need to (8) charge our phones every four days.

IBM has (9) greatly improved its microchips by reducing their size. The tech giant has created a two-nanometre chip. Computer engineers use nanometres to (10) measure the size of chips. One nanometre is just a (11) billionth of a metre. A chip that is 2nm in size is (12) incredibly small. IBM says its 2nm processor can store 50 billion transistors on "a chip the size of a (13) fingernail". Computer expert Peter Rudden said: "We have seen semiconductor manufacturers moving from 14nm to 10nm to 7nm, with 7nm being a real (14) challenge for some." He said IBM's new chip could (15) also artificial intelligence (AI). The chips could also let data centres (16) store more information. Data centres use one per cent of the world's electricity.

amounts

things

efficient

breakthrough

fast

charge

definition

energy

incredibly

store

greatly

billionth

advance

measure

challenge

fingernail

GAP FILL

"World Food Prize awarded to fish expert"

The World Food Prize has been awarded to a nutrition (1) expert for her innovative work on fish. Dr Shakuntala Thilsted, 71, received the (2) coveted prize for pioneering new methods of raising fish that are rich in nutrients. She also successfully campaigned to (3) incorporate the fish into the diets of people in developing countries. U.S. Secretary of State Antony Blinken (4) commended Dr Thilsted on her work. He said she (5) figured out how these nutrient-rich small fish can be raised locally and inexpensively". He added that, "millions of low-(6) income families...are eating small fish regularly, dried and fresh, in (7) everything from chutneys to porridge". He said: "The key nutrients in the fish will protect children for a (8) lifetime."

coveted
everything
commended
expert
lifetime
income
incorporate
figured

The World Food Prize was created by a Nobel Peace Prize (9) laureate in 1986. He wanted to recognise scientists who improved the quality and availability of food. The (10) recipient of the award receives a \$250,000 prize. Dr Thilsted grew up on the Caribbean island of Trinidad. She fully (11) appreciated the nutritional value of fish in improving our health. She went on to conduct research on (12) malnutrition and fish diets in Bangladesh in the 1980s. She said: "I was able to (13) assess the nutritional composition of small fish (14) species and realized that they were extremely rich in (15) multiple vitamins and minerals." She hopes her award will (16) inspire more women in developing countries to continue her research.

assess
inspire
appreciated
laureate
multiple
recipient
species
malnutrition

Answers:

1. I've seen three police cars this morning.
2. After he arrived home, he unpacked and went to bed early.
3. A: What's wrong?
B: I've broken a glass!
4. My grandparents only knew each other for a few months before they got married.
5. I've been in London for three years. I love it here.
6. We saw Julie last night.
7. He was a teacher before he became a musician.
8. When the boss walked into the room, we knew someone was going to get fired.
9. The children broke a window in the school last week.
10. He saw that film last year.
11. Lucy has broken her leg, so she can't come skiing.
12. Julie's arrived! Come and say hello!
13. They were cold when they arrived home.
14. Jack broke his arm when he fell off a horse in 2005.
15. I've known about the problem for months, but I haven't found a solution yet.
16. A: When did you arrive?
B: At 10pm last night.
17. She's been a teacher for ten years, and she still enjoys it.
18. How long have you known Jill? I know you see her often.
19. I have never seen the sea before.
20. A: Hello
B: Hi Mum, it's me. I just wanted to say I've arrived safely and everything is fine.

Answers:

1. I am so **relaxed** I don't want to move.
2. I find horror films really **frightening** and not at all fun to watch.
3. Sometimes I get really **frustrated** when I can't express myself well in English.
4. We were stopped by a man with a knife who took our money. It was **terrifying**.
5. The programme was really **interesting**.
6. She was **overwhelmed** when everyone cheered and we gave her presents.
7. If I feel stressed, I find taking a bath is often **relaxing**.
8. I am really **tired**; I think I'll go to bed.
9. He's very **interested** in history.
10. The trip was **overwhelming**, with so many things to do and it was all so new.
11. She is never **satisfied** with her work.
12. Cleaning is so **tiring**! I think I'll have a rest!
13. She thought the ride on the rollercoaster was **thrilling**.
14. I was really **surprised** when I saw you. I had thought you were on holiday.
15. My grandmother was **shocked** by the man's bad language.
16. My niece **is terrified** of dogs.
17. Thank you so much for the prize! I'm **thrilled**!
18. My job is very **satisfying**, I love helping people.
19. The news was so **shocking** that she burst into tears.
20. My exam results were great! It's really **surprising** but good, of course!