

**A**  Listen to the conversation between three friends. Then match the statements to the people: *Sarah, Julián, or Charles*.

- 1 I am always really busy, so I really value anything that helps me save time. \_\_\_\_\_.
- 2 Sometimes I think we are too focused on technology and we don't value the world around us. \_\_\_\_\_.
- 3 I really miss my family and I miss hearing their news. \_\_\_\_\_.
- 4 I usually communicate by cell phone because it's quicker than sending emails. \_\_\_\_\_.
- 5 I agree that the internet is one of the most important inventions. \_\_\_\_\_.

\_\_\_\_\_ / 10 (2 points each)

**B** Circle the correct answer.

CRISPR – The gene editing technology

Scientists and biochemists constantly *face* / *notice* challenges regarding how to <sup>1</sup> *provide* / *gain* solutions to combating illnesses like cancer.

In July 2017 biochemist Jennifer Doudna made a <sup>2</sup> *discovery* / *solution* which may mean that we can control human evolution. Doudna and other researchers in Portland, Oregon, made a <sup>3</sup> *breakthrough* / *phenomenon* in gene editing technology.

Doudna studied the DNA of bacteria and gained <sup>4</sup> *knowledge* / *a solution* about it that helped her. She <sup>5</sup> *provided* / *noticed* a phenomenon in the DNA of some bacteria and was able to make a <sup>6</sup> *connection* / *challenge* between this phenomenon and what she already knew about the DNA of bacteria.

At the Innovative Genomics Institute in Berkeley, scientists are <sup>7</sup> *carrying out* / *making* research to try and find important information which will provide <sup>8</sup> *research* / *insight* into how these illnesses can eventually be eradicated.

\_\_\_\_\_ / 8 (1 point each)

**C** Circle the correct answer.

Microsoft made a real *blunder* / *misunderstanding* when they developed a "chatbot" to interact with humans on Twitter. However, they got it <sup>1</sup> *wrong* / *failed* because they hadn't realized that the chatbot would copy bad language that Twitter users used. There was a lot of <sup>2</sup> *blunder* / *confusion* about how it could have happened. They tried to correct the <sup>3</sup> *error* / *fail* and fix the <sup>4</sup> *fault* / *problem*, but it wasn't possible. They just couldn't get it <sup>5</sup> *right* / *wrong*, and the Twitter account was suspended within 16 hours of launch. At least they managed to resolve the <sup>6</sup> *mix up* / *blame* quickly, and the incident didn't cause any damage to the brand.

The Twitter chatbot turned out to be an epic <sup>7</sup> *fault* / *fail*.

\_\_\_\_\_ / 7 (1 point each)

**D** Rewrite the sentences with the past unreal conditional form.

EXAMPLE: I didn't have money, so I didn't buy the shoes.

If I had had money, I would have bought the shoes

- 1 It rained yesterday, so we didn't go out.
- 2 I wasn't hungry. I didn't finish my lunch.
- 3 I went to the mall and I saw my friend there.
- 4 I was really into the movie, so I went to bed late.
- 5 Gabriela failed the exam. She didn't study for it.
- 6 My parents both went on vacation in Bali. That's where they met.
- 7 Janek helped me, and I won the competition.
- 8 Sung Min didn't come to the party. I didn't enjoy it.

\_\_\_\_\_ / 7 (1 point each)

**E** Write the words in the correct order to make sentences.

EXAMPLE: a / The / could / scientists / have / solution / found / .

The scientists could have found a solution

- 1 I / might / think / Sally / been / the / winner / have / .
- 2 been / couldn't / Juan's / This / have / fault, / there / he / because / wasn't / .
- 3 He / blunder / have / a / shouldn't / made / such / .
- 4 Picasso / The / could / artist / been / have / .
- 5 have / might / a / breakthrough / been / This / .
- 6 worked / This / should / experiment / have / .
- 7 by / They / have / now / should / the / problem / fixed / .

\_\_\_\_\_ / 7 (1 point each)

**F** Read the article. Circle *True* or *False* for each statement.

### Invented by mistake!

Amazingly many of the everyday items we use were invented by accident. Yes! By accident. Not all inventions are carefully planned. Some examples of accidental inventions include Teflon, saccharin, cornflakes, popsicles, post-it notes, Velcro, and safety glass.

Let's look at Velcro as an example. Most of us use Velcro every day and take it for granted? But it was invented quite by chance. A man named George De Mestral, an electrical engineer, was walking his dog one day. Returning from the walk he noticed that the dog had a bur, a dry grass seed, stuck to his hair. He examined the phenomenon and realized that the bur had many tiny hooks. After experimenting with nylon, De Mestral eventually invented Velcro.

Next time you reach for a post-it note to jot down a message or a reminder, think about how these useful like pieces of paper were invented. In 1968 Dr. Spencer Silver, a scientist from the US, made a glue which should have been stronger than it was. Dr. Spencer tried for five years to patent his glue but without success. Then one day a friend of his, Art Fry, decided it would be a good way of marking his place in the hymn book he used to sing in a choir. From that, Post-its were born!

Finally, let's look at popsicles. These were invented by chance when one cold night an eleven-year-old boy accidentally left a glass of flavored juice outside his house on the porch. The next day the juice had frozen. This young boy, named Frank Epperson, went on to patent the idea and sell popsicles when he was older.

Sometimes the best ideas begin with a blunder!

1 The idea for Velcro was inspired by something in nature.	True / False
2 George De Mestral invented Velcro right after walking with his dog.	True / False
3 Dr. Spencer Silver decided in 1968 to invent the post-it note.	True / False
4 Frank Epperson got the idea for popsicles from a young child.	True / False
5 The writer is surprised by the everyday objects which came from a simple idea.	True / False

\_\_\_\_\_ / 10 (2 points each)