

**I Read the text and answer the questions below.**

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著作権上の問題から公開することができません。

【出典（一部改変）：<https://www.timeforkids.com/>】

**Fill in the blanks with the most suitable word.**

- |      |             |              |             |             |
|------|-------------|--------------|-------------|-------------|
| (1)  | A. about    | B. foot      | C. trend    | D. in       |
| (2)  | A. granted  | B. admitted  | C. destined | D. planted  |
| (3)  | A. followed | B. sued      | C. counted  | D. imitated |
| (4)  | A. chains   | B. nightmare | C. magic    | D. missions |
| (5)  | A. way      | B. mood      | C. mode     | D. usage    |
| (6)  | A. knowing  | B. kicking   | C. heading  | D. chewing  |
| (7)  | A. up       | B. about     | C. near     | D. owing    |
| (8)  | A. young    | B. possible  | C. busy     | D. old      |
| (9)  | A. drop     | B. few       | C. sort     | D. sense    |
| (10) | A. up       | B. clear     | C. sure     | D. likely   |

2.

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【出典（一部改変）：<https://www.bbc.com/>】

**Choose the most appropriate phrase to fill in ①—⑤. Use each phrase only once. Capitalization is irrelevant.**

- A. the probe left a small camera behind
- B. it conducted a search for the crater
- C. it is a relic left over from the early days of our Solar System
- D. Earth and the other planets formed
- E. fresh material has been excavated from beneath the surface

3. Read the text and answer the questions below.

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【出典（一部改変）：<https://gizmodo.com/>】

Choose the most appropriate phrase to fill in ①－⑤. Capitalization is irrelevant.

- A) with the entangled link already set up, the folks on the ground have only to open both of their bags
- B) a lot less exciting than Star Trek-style teleportation, unfortunately. This “quantum teleportation” doesn’t actually involve teleporting a real object
- C) designed to test communications based on the principles of quantum mechanics over large distances
- D) put each randomly into one of two bags, and hand one bag to a person on the ground
- E) make an observation of a particle, we only get probabilities describing what the particle might look like

II 日本語の意味に合うように、空欄を英語で埋めなさい。

1. 好むと好まざるとにかかわらず、その試験に合格するためにはたくさん勉強しなければならない。

( ) you like it or not, you have to study a lot to pass the exam.

2. アルコールは多くの人々をリラックスさせる傾向がある。

Alcohol ( ) to cause many people to relax.

III ①と②の下線部をよく分かる日本語に訳しなさい。

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【出典（一部改変）：<https://www.scientificamerican.com/>】

**IV Read the text and answer the questions below.**

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【出典（一部改変）：<https://www.scientificamerican.com/>】

1. Choose the word or phrase that is closest in meaning to ①—⑤.

- ①      A. large                  B. thorough                  C. biological                  D. each other
- ②      A. impossible to find                  B. helpful  
         C. not promoting of life                  D. somewhat common
- ③      A. keep alive      B. reorganize                  C. match                  D. transfer
- ④      A. losing but still possible                  B. locally charged  
         C. newly discovered                  D. most dominant
- ⑤      A. many                  B. numerical value of                  C. damages of                  D. advanced

**2. Choose the best answer for the questions below.**

(1) Which sentence below tells you what you might learn from this essay?

- A. Peter Kropotkin was the best scientist of the nineteenth century.
- B. Charles Darwin tried to explain evolution without considering the importance of cooperation and sharing among animals of the same species.
- C. Most evolutionary biologists understand that human cooperation and animal cooperation are fundamentally different, and this is why they do not discuss similarities between *homo sapiens* and other species.
- D. Mutual aid is a scientific law that has guided the evolution of all life on Earth.

(2) The first time that a biologist began studying animal cooperation was

- A. about five years ago.
- B. in the 1980s.
- C. around the time that the Meiji government was established.
- D. in the early twentieth century.

(3) How many papers are published in one year on cooperation among animals?

- A. more than the number of fingers that you have
- B. 37
- C. hundreds
- D. thousands

(4) Which statement is true?

- A. Kropotkin did not agree with Darwin's theory of evolution because he did not like competition.
- B. In Siberia Kropotkin saw many examples of individual animals of the same species helping each other.
- C. Darwin's ideas were trusted by Russian scientists more than they were trusted by British scientists.
- D. Researchers at the University of Princeton have not yet explored questions about animal cooperation.

(5) According to the essay, the species *homo sapiens* might destroy itself if scientists do not think about

- A. the work of science prophets
- B. gift-giving between family members
- C. cooperation among animals
- D. the teeth and the claws of various animal species