

英 語

問題冊子 2

注 意

「問題冊子 2」に印刷されている問題は、**2** から **3** までで、2 ページから 14 ページまであります。

2 次の対話の文章を読んで、あとの各問に答えなさい。

(* 印のついている単語・語句には、本文のあとに〔注〕がある。)

Oliver is a high school student living in the United States. He is chatting online with his friends, Kana, a Japanese high school student, and Jun, her younger brother. Oliver lived in their neighborhood in Japan.

Oliver: Hi! How are you doing?

Kana: I'm a little tired. It's too hot in Tokyo.

Oliver: I know. ⁽¹⁾ Hot weather is becoming part of our lives.

Jun: Because of climate change?

Oliver: Yeah. Rising temperatures on the earth are one of the causes of severe weather.

Jun: I have to do something to survive this hot weather.

Kana: Jun, you're always thinking about yourself. Well, Oliver, here in Japan more and more people are using *parasols to protect themselves from *sunlight. It will be nice if we can *cool the earth without difficulty like opening a parasol.

Oliver: Wait a minute! (2)-a

Jun: About a parasol?

Oliver: It is about *giving shade like a parasol. It's a new research project in the U.S. Scientists are thinking about creating a huge parasol for the earth.

Kana: Interesting. (2)-b

Oliver: It does. These scientists are going to use a *chemical to make our planet cool.

Jun: Are they trying to make a parasol from a chemical? (2)-c

Kana: How do they cool the earth with it?

Oliver: They are going to put *particles of the chemical in the *stratosphere. They will cut off some of the sunlight reaching the earth.

Kana: I see. You mean those particles will work like a parasol.

Oliver: That's a technology called *solar geoengineering.

Kana: Solar geoengineering? (2)-d

Oliver: The scientists of this solar geoengineering project learned from the events that happened in the natural world.

Kana: Tell me more.

Oliver: They learned from *volcanic eruptions. In the past, because of a huge volcanic eruption, the *average temperature of the earth went down about 0.6 °C and the cooler temperature lasted for two years.

Jun: Only 0.6 °C? ⁽³⁾ I don't think it can make a big difference.

Oliver: That's not true, Jun. Temperatures go up and down every day, so a difference of, for example, 1 °C doesn't make a big difference. ⁽⁴⁾ However, 【 ① average temperature ② changes ③ small ④ mean ⑤ lot ⑥ a ⑦ of ⑧ the 】 .

Jun: I understand. Then, we can have high hopes for solar geoengineering.

Oliver: But we can't use the technology right now. There are many things we have to know before actually using it, so the scientists need to do a lot of research. They have a plan to send a special *balloon to the stratosphere. They are going to use it to put a chemical in the stratosphere.

Jun: Amazing!

Oliver: The scientists have already decided which chemical they are going to use in the experiment.

Jun: What is it?

Oliver: *Calcium carbonate. It is used in many things around us such as some types of medicine for stomachaches, so it doesn't seem dangerous.

Kana: Will solar geoengineering actually be effective enough?

Oliver: The scientists say so and they also say we can see its results quickly.

Kana: ⁽⁵⁾ I think that sounds too great.

Oliver: In fact, there are many people who are against this experiment.

Jun: Why?

Oliver: Well, one reason is that solar geoengineering can't be a solution to climate change.

Kana: What do you mean?

Oliver: It can't remove CO₂ from the air. It will just make the earth a little cooler.

Jun: Cooling the earth is a good thing.

Oliver: That may not be so simple, Jun. ⁽⁶⁾ ⌘ I hear that if we start using the technology, we have to keep using it forever. ⌘ We are trying to increase the amount of CO₂, and it's impossible to do so. ⌘ Calcium carbonate used to cool our planet will disappear in a year or less. ⌘ On the other hand, CO₂ may stay in the air for 1,000 years or more. ⌘ If we suddenly stop putting the chemical in the stratosphere, the world temperature may rise again and that will destroy the natural environment.

Kana: I see. That's a problem.

Oliver: It is said the world temperature has already risen 1 °C since *pre-industrial times. We need to keep the temperature *rise to 1.5 °C.

Jun: If we can't, what will happen?

Kana: Many countries, especially poor countries, may receive great damage.

Jun: I wish we had a simple way like (7) to stop climate change.

Oliver: One of the scientists of the solar geoengineering project says that he is really worried about our future and also says that as a scientist he needs to think about all kinds of ways to change the course of our climate.

Jun: It is natural for scientists to try to find ways to end climate change.

Kana: Many countries and cities around the world have promised to cut their CO₂ *emissions to zero by 2050. Tokyo is one of them and the Tokyo Government made a report called “Zero Emission Tokyo.”

Oliver: Have you read it?

Kana: I read just part of it in my social studies class. I found ⁽⁸⁾ a very interesting graph in it. Its title is “*Sector Breakdown of Greenhouse Gas Emissions in Tokyo.”

Jun: Sounds difficult.

Kana: Guess which *sector *emitted the largest amount of CO₂.

Jun: Factories, of course!

Oliver: I don’t think so. A large number of people live and work in Tokyo, but there are not so many big factories there.

Kana: You’re right, Oliver. The CO₂ emissions from Sector A such as factories were less than 10%.

Jun: Then, which sector emitted the most?

Kana: That’s Sector B such as offices, restaurants, and schools.

Jun: I see. There are many of those *institutions in Tokyo.

Kana: That’s right. And the most interesting thing to me was the sector which came the second. That’s Sector C, emissions from homes. Their emissions were more than those of Sector D such as cars, buses, and trucks.

Jun: Well, then it means

Kana: Yes, it means that things we do at home such as recycling or growing plants are very important to stop climate change.

Jun: I’ve thought the fight against climate change is governments’ or big companies’ job, but that’s my job, too.

Kana: Very good, Jun. You have to take action right now.

Oliver: As the first step, what are you going to do, Jun?

Jun: Well, I’m going to tell my friends that things we do can change the world.

Oliver: Great. What about you, Kana?

Kana: Actually, I’ve already begun. I’m trying to eat less meat and more vegetables.

Oliver: A famous scientist I respect said that, in a world of more than seven billion people, each of us is a *drop in the bucket. But ⁽⁹⁾ with enough drops, we can fill any bucket.

Kana: I like that.

Jun: Nice words. If everyone in the world works together, we can solve any problem.

Oliver: You’re right. I enjoyed talking with you, Kana and Jun.

Kana: I also had a good time. Thank you. See you soon.

Jun: Bye, Oliver.

Oliver: Bye.

〔注〕 parasol 日傘	sunlight 日光	cool 冷やす
give shade 日陰を作る	chemical 化学物質	particle 分子
stratosphere 成層圏	solar geoengineering ソーラージオエンジニアリング	
volcanic eruption 火山噴火	average temperature 平均気温	balloon 気球
calcium carbonate 炭酸カルシウム	pre-industrial times 産業革命前の時代	
rise 上昇	emission 排出	
Sector Breakdown of Greenhouse Gas Emissions in Tokyo 東京の温室効果ガス排出量部門別構成比		
sector 部門	emit 排出する	institution 施設
drop しずく		

〔問 1〕 ⁽¹⁾ Hot weather is becoming a part of our lives. とあるが、その表す意味とほぼ同じ表現は、次の中ではどれか。

- ア Hot weather is becoming more traditional.
- イ Hot weather is becoming more common.
- ウ Hot weather is becoming more surprising.
- エ Hot weather is becoming more special.

〔問 2〕 (2)-a ～ (2)-d の中に、それぞれ次の A ～ D のどれを入れるのがよいか。その組み合わせとして最も適切なものは、下のア～カの中ではどれか。

- A I can't imagine that.
- B I've never heard of it.
- C That sounds like science fiction.
- D That reminds me of an interesting project.

	(2)-a	(2)-b	(2)-c	(2)-d
ア	C	D	B	A
イ	C	A	D	B
ウ	C	B	A	D
エ	D	A	C	B
オ	D	A	B	C
カ	D	C	A	B

〔問 3〕 ⁽³⁾ I don't think it can make a big difference. とあるが、その内容を次のように書き表すとすれば、 の中にどのような英語を入れるのがよいか。対話文中の**連続する 4 語**で答えなさい。

I don't think it can enough.

〔問 4〕 ⁽⁴⁾ However, 【 ① average temperature ② changes ③ small ④ mean ⑤ lot ⑥ a ⑦ of ⑧ the 】. とあるが、対話文の流れに合うように、【 】内の単語・語句を正しく並べかえたとき、**2 番目と 5 番目と 8 番目**にくるものの組み合わせとして最も適切なものは、次のア～カの中ではどれか。

	2 番目	5 番目	8 番目
ア	②	①	⑤
イ	②	④	③
ウ	③	①	⑤
エ	③	⑥	①
オ	⑤	①	④
カ	⑤	②	①

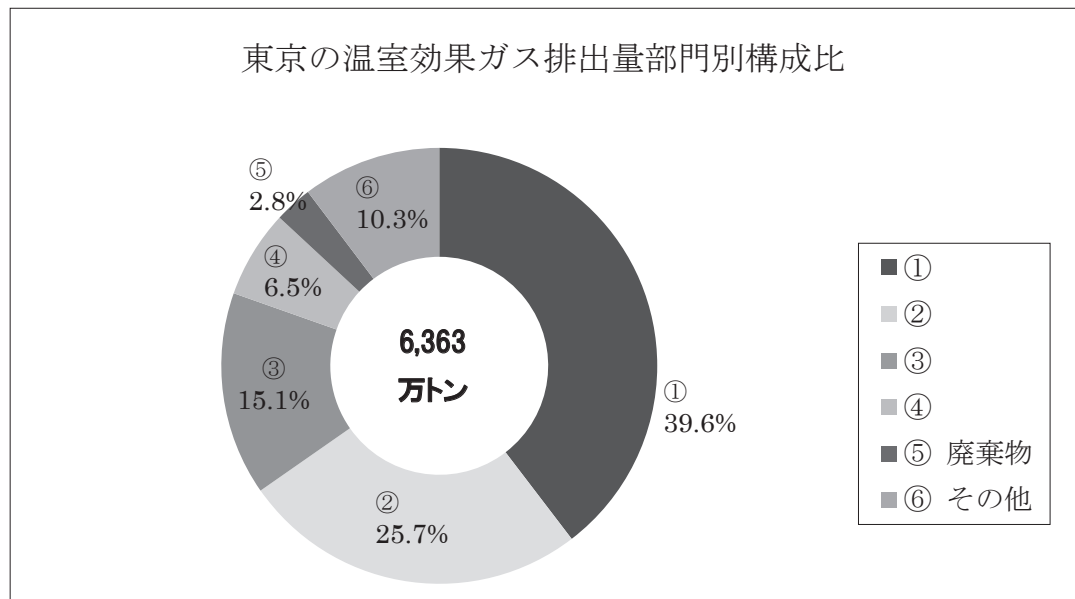
〔問 5〕 ⁽⁵⁾ I think that sounds too great. とあるが、その表す意味とほぼ同じ表現は、次の中ではどれか。

- ア It is true that many people support the experiment of solar geoengineering.
- イ It is true that we can have high hopes for solar geoengineering.
- ウ It is difficult to believe that solar geoengineering has only good points.
- エ It is difficult to believe that the scientists are going to use a balloon in solar geoengineering.

〔問 6〕 ⁽⁶⁾ の中のア～オの文のうち、対話文の流れに合わない内容のものを一つ選びなさい。

〔問 7〕 対話文中の (7) の中にどのような英語を入れるのがよいか。対話文中の連続する 3 語で答えなさい。

〔問 8〕 ⁽⁸⁾ a very interesting graph とあるが、次のグラフは対話文中で説明されているものである。グラフの①～④の部門を表す組み合わせとして適切なものは、下のア～カの中ではどれか。



「ゼロエミッション東京 2020」のグラフをもとに作成

	①	②	③	④
ア	Sector A	Sector B	Sector D	Sector C
イ	Sector A	Sector C	Sector B	Sector D
ウ	Sector B	Sector C	Sector D	Sector A
エ	Sector B	Sector D	Sector A	Sector C
オ	Sector C	Sector A	Sector B	Sector D
カ	Sector C	Sector B	Sector D	Sector A

〔問 9〕 ⁽⁹⁾ with enough drops, we can fill any bucket とあるが、この表現とほぼ同じ内容を表している文を対話文中から選び、その始めの 2 語と終わりの 2 語を答えなさい。なお, 「,」「.」「!」「?」などは語数に含めないものとする。

〔問 10〕 対話文の内容に合う英文の組み合わせとして最も適切なものは、下のア～コの中ではどれか。

- ① These days Tokyo is becoming cooler because many people are using parasols.
- ② Jun says that he is thinking about ways to protect people from hot weather.
- ③ The scientists of the solar geoengineering project are using a parasol now to cut off some sunlight.
- ④ In the experiment, the scientists are going to use a balloon to put a chemical in the stratosphere.
- ⑤ The chemical used in the experiment will be as dangerous as CO₂.
- ⑥ Many governments in the world are making efforts to cut their CO₂ emissions to 2050 level.
- ⑦ Kana says that things people do at home can stop climate change.
- ⑧ Oliver says that there are so many people in the world that no one can do an important thing.

ア	① ⑧	イ	② ⑥
ウ	③ ⑤	エ	④ ⑦
オ	④ ⑧	カ	① ③ ④
キ	② ⑤ ⑦	ク	③ ④ ⑦
ケ	③ ⑤ ⑦	コ	④ ⑤ ⑧

3 次の文章を読んで、あとの各問に答えなさい。

(*印のついている単語・語句には、本文のあとに〔注 1〕がある。また、**印のついている単語には、本文のあとに〔注 2〕があり、英語で意味が説明されている。)

Hello, my name is Lisa Smith. My friends call me Lisa. I'm fifteen years old. I live with my parents and my brother in a small town in Canada. The other day, something important happened and I have realized that pet animals have special powers. Why do I think pet animals have special powers? I'll tell you why.

I'm a junior high school student. I walk to and from school every day. I enjoy walking to school and it takes about half an hour. One warm spring day, when I was on my way home from school, a small friend was following me. This friend was different from any other friend. She was very small. "What a cute **kitten!" She had no *identifying marks of any kind. "Is she a *stray cat?" I thought. She followed me all the way. When I arrived home, she was just behind me.

When my parents came back home from work that evening, they were surprised to see the kitten. I told them that my friend gave her to me, but it was a *lie. My parents knew that I was telling a lie. My parents love cats but told me that we should find the owner and give her back. They said I should think of the owner. "What should I do?" I thought. I thought about a *notice in the town newspaper. However, that was the last thing I wanted to do. "If I put a notice in the town newspaper, her owner may appear," I thought. The kitten was so cute. I started to think, " (1) " I did not want to lose her.

My brother said that the kitten was maybe about six months old. The cat liked us right away. After dinner she climbed on to my legs and watched TV with us. By now I was asking my parents to keep her.

By the end of the week, the new cat was part of our family. She was very smart and good with me. My parents started to change their minds about the cat. My father said to me, "Lisa, I think no one is looking for this cat. Now, it's time for you to take *responsibility for another life. This will be a good chance for you to learn something important. You'll learn something you'll need when you become a parent in the future."

The next week, something told me to check the town newspaper. One very small notice jumped out at me. When I saw it, I was surprised. A woman near my house was looking for her lost cat. My hands were shaking. I knew I should call the woman, but I couldn't pick up the phone. Instead, I tried to believe that I didn't see the notice. I quickly threw the newspaper away in the closet in my room and continued to do my homework. I (2) said a word about it to my parents.

We gave a name to the kitten. She was all white like snow, so we decided to call her Snow. When I was studying at my desk, she was quiet. However, when I went into the garden, she followed me and asked me to play with her. When I was doing the dishes, she was there to lend a hand (or should I say **paw?).

There was only one problem with this perfect picture. I could not forget the notice in the town newspaper. One day, I started to think what I really should do. I knew in my heart that I should call the woman. I knew she really wanted to see her cat again. I thought, "Is our Snow the cat the woman wants to see?" I didn't sleep well that night.

The next morning, I talked about the notice to my parents, and, at last, I started to push the numbers on my phone. In my heart, I was hoping no one would answer, but someone did. "Hello." It was the voice of a young woman. I explained to her about the cat and she asked me a lot of questions. She said she really wanted to come. After the phone call, I was very nervous. I asked my parents to stay with me.

I was with my parents at the kitchen table. I hoped a *miracle would happen. Snow was sitting at my feet the whole time and sometimes looked up at me with those pretty eyes. ⁽³⁾ Snow noticed something was wrong.

Within minutes the woman was at the front door. I saw her through the window. She was standing there with a map in her hand. She *knocked on the front door. "Excuse me, is this the home of Mr. and Mrs. Smith?" she asked. When she knocked on the door again, a thousand *thoughts crossed my mind. I could say to her, " " But it was too late; my mother opened the door. I also went there to face my fear.

The woman looked at Snow and the woman's face changed. I saw a big smile on her face. "Here, Lucy," she called. "Come to me, girl." Now I realized the cat was called Lucy by the woman. The cat looked very happy at the woman's voice. It was clear that she belonged to the woman.

I was in tears. I couldn't do anything. I wanted to run away with Snow. Instead, I smiled a little and my parents asked the young woman to come in.

The young woman was already holding Snow up into her arms. She opened her *purse and tried to give my parents some money.

"For your trouble," she said.

My parents shook their heads. My mother said, "Oh, we can't. She has been a joy. We should pay you some money." With that, the woman smiled and *hugged Snow again.

Snow was really happy to see the woman again. I knew it was time for them to go home. I opened the front door. When the woman was leaving, I noticed a little girl with her father. The girl was sitting in the front seat of the car. When the girl saw the kitten, I saw a big smile on her face. The girl said, "Come here, Lucy!"

Before I said something, the woman started to explain. "My family moved to this town last month. The girl in the car is my daughter. She did not know anyone in this town and she felt very lonely every day. Lucy was given to her because my husband and I know that she loves cats."

The woman continued, "When Lucy *disappeared, my daughter was very shocked. She was crying all day. She was in her room all the time. Every day she said she wanted to see Lucy again. Lucy is her only friend at this new place. She has a special *bond with the kitten."

Suddenly I realized that I was thinking only about myself. My heart went out to that little girl. When I saw the car going away, the smile on my face was real. I knew I did the right thing. I knew that the kitten was exactly at the right place. ⁽⁵⁾ I learned something important from the cat.

〔注 1〕 identifying mark 身元を示すしるし

lie うそ

responsibility 責任感

knock ノックする

purse 財布

disappear いなくなる

stray cat のら猫

notice 告知

miracle 奇跡

thought 考え

hug 抱きしめる

bond きずな

〔注 2〕 kitten

A **kitten** is a very young cat.

paw

The **paws** of an animal such as a cat or dog are its feet.

〔問 1〕 本文の流れに合うように、 (1) に英語を入れるとき、最も適切なものは次の中ではどれか。

- ア I have to find her owner and give her back as soon as I can.
- イ I must go and check the newspaper at the school library now.
- ウ I really want to know why my friend gave me such a pretty cat.
- エ I cannot understand why her owner did not watch her enough.

〔問 2〕 本文の流れに合うように、 (2) に英語 1 語を入れるとき、入るべき英語 1 語は何か。

〔問 3〕 ⁽³⁾ Snow noticed something was wrong. とあるが、この文とほぼ同じ意味を持つものは次の中ではどれか。

- ア Snow felt something was going to happen.
- イ Snow thought she made a terrible mistake.
- ウ Snow thought she should feel sorry for me.
- エ Snow felt we should think more carefully.

〔問 4〕 本文の流れに合うように、 (4) に英語を入れるとき、最も適切なものは次の中ではどれか。

- ア Hello, welcome. Open the door, please.
- イ I'm afraid you have the wrong address.
- ウ Sorry, I don't know anything about Lucy.
- エ Who is it? My mother is coming soon.

- 〔問 5〕 ⁽⁵⁾ I learned something important from the cat. とあるが、Lisa はこの日の晩に、次の日記を書いた。日記を読んで、あとの〔質問 A〕〔質問 B〕に対する答えを自分で考えて、**それぞれ 20 語以上の英語**で書きなさい。英文は二つ以上にしてもよい。なお、「,」「.」「!」「?」などは語数に含めないものとする。I'll のような「'」を使った語や e-mail のような「-」で結ばれた語はそれぞれ 1 語と扱うこととする。

I have learned something important from Snow. Now, she is not here. I really miss her. I really want to see her again, but I know I did the right thing. The kitten is now at the right place. I can now look at the world in a different way.

- 〔質問 A〕 Lisa wrote in her diary, “I have learned something important from Snow.” What did she learn from the cat?
- 〔質問 B〕 Lisa wrote in her diary, “The kitten is now at the right place.” What does this sentence mean?

- 〔問 6〕 本文の内容と合っているものを、次のア～カから二つ選びなさい。

- ア Lisa walks to junior high school with her small friend every day. She spends about thirty minutes going to school.
- イ At first, Lisa’s parents told Lisa to return the cat to the owner because they thought Lisa was still a child and should not keep a cat.
- ウ Finally, Lisa agreed to meet a woman who was looking for her cat, so her mother made a phone call to the woman.
- エ The woman who came was the owner of the cat. She said “thank you” and gave some money to Lisa’s parents.
- オ The kitten was called Snow by Lisa because it was all white, and the same cat was called Lucy by the girl in the car.
- カ For the girl in the car, the cat was her only friend in the town. She had no other friend there because she was new there.

〔問 7〕 次の単語のうちで、下線の引かれている部分の発音が他と異なるものを、次のア～オから一つ選びなさい。

ア learn

イ word

ウ perfect

エ heart

オ girl

