

英語 (リーディング)

各大問の英文や図表を読み、解答番号 ~ にあてはまるものとして最も適切な選択肢を選びなさい。

第1問 (配点 6点)

You are a high school student interested in business and want to learn about making money during the summer break. You found a website advertising a summer camp hosted by a famous university for students wanting to create their own business.



Henry's Business Workshop (HBW) has been offering business-making camps for senior high school students in Japan since 2001. Immerse yourself in a two-week adventure full of countless business opportunities!

Dates: August 3-17, 2025

Location: VIP Tower in Ginza, Tokyo

Cost: 100,000 yen, including food and accommodation

Courses Offered

◆ **WEB MARKETING & ONLINE BRANDING:** Experience consulting with a small business in improving its online presence. From our business partners, select one company as your client and plan the web marketing strategy. Then, analyze your client's business by setting up meetings with one of our teachers. Next, come up with solutions and present them to your client. Whether it is managing your client's social media account, sending web advertisements, or rebranding, carry out the solution your client agreed upon. Finally, compile your experience and present it to the class on August 17th.

◆ **MANAGERIAL SKILL:** Every business requires teamwork. First, study

management theories with your study group. Then, your group will choose a business task and select a leader within the group. Upon conducting the task, the leader will choose a management theory and practice it. Lastly, prepare a report on how your group benefited from the applied management theory and present it on the final day. There will be an assistant for each study group so no need to be nervous.

◆ **INTERNATIONAL BUSINESS:** One way to grow your business is to expand it globally. Attend classes from business consultants who have been doing business internationally since the 2000s. You can become familiar with various case studies of successful and not-so-successful international businesses. With a partner, choose a local product and a foreign country to expand the market in. Come up with an effective business strategy by consulting with a teacher from our workshop for professional advice and present it to your class.

▲ 2025 SUMMER APPLICATION: MAY 1st – 31st

Stage 1: Complete the online application form to register.

Stage 2: HBW will contact you about scheduling an online interview.

Stage 3: You will attend the interview, describing the course you want to attend and what your expectations are.

Stage 4: HBW will notify you that your course registration is complete and send you an invitation for the welcome session. Your family members can also attend and ask questions about the program.

問1 By joining , you will meet businessmen who have conducted business for more than ten years.

- ① INTERNATIONAL BUSINESS
- ② MANAGERIAL SKILL
- ③ WEB MARKETING & ONLINE BRANDING
- ④ All of the above

問2 What do all the courses have in common?

- ① You will attend meetings with a staff member describing the courses.
- ② You will be assigned to a study group.
- ③ You will have help from a staff member.
- ④ You will learn about various IT applications.

問3 What will you do after you have finished the interview?

- ① You will explain your expectations about the course.
- ② You will pay the course fee in advance.
- ③ You will receive an invitation to the welcome session.
- ④ You will submit your school report card.

第2問 (配点 10点)

You are reading the following article as you are interested in studying overseas.

Daiki Date

Study Abroad in South Africa

This year, I spent two weeks studying abroad in South Africa. I chose to stay in the beautiful city of Cape Town. The locals greeted me warmly when I told them that I chose South Africa to study astronomy. It was relieving when they answered that I had made a great choice because you can see many constellations as the sky is so clear there. They weren't wrong as I stayed in Sutherland for a week, a rural town that is a four-hour drive away from Cape Town. There, I could see the Magellanic Clouds, systems of millions and billions of stars, with my own eyes. I also took classes at the South African Astronomical Observatory, which has the largest single optical telescope in the southern hemisphere.

Back in Cape Town, the locals introduced various food courts that reflect South Africa's ethnic diversity. We tried everything from local sushi restaurants to Indian restaurants. But we could not skip the local South African cuisine! Have you heard of Bunny Chow? It's an Indian-African dish of a hollowed-out loaf of white bread filled with curry. Another delicious local dish we had was Malva pudding. It is a pudding with apricot jam and creamy sauce. I heard it originated in the Netherlands. It's interesting how many different cultures influence African cuisine.

As Cape Town has the very famous Table Mountain, it is difficult to miss out on the beautiful natural scenery. We hiked to the top and saw the breathtaking view of the whole town. Everywhere you go, there are beautiful sceneries as if it is taken from a movie. Even though the drive from the city center to the Cape of Good Hope was very long, I promised myself strongly to not fall asleep, so I wouldn't miss out on the beautiful seaside.

One thing I regret is I didn't spend much time getting in touch with the African

language. It's said that there are at least 35 languages spoken in the country. The interactions with the locals were in English, especially when studying astronomy, which was my focus for this trip. I would like to visit South Africa again someday and explore its rich linguistic landscapes.

問1 According to the article, Daiki .

- ① improved his English skills which he hoped to do
- ② learned many languages
- ③ researched the Magellanic Clouds with other astronomers
- ④ stayed half of his trip in Cape Town

問2 With the locals, Daiki was able to .

- ① cook African food that he had never heard of
- ② eat many non-African foreign dishes
- ③ learn the political situation of Africa
- ④ purchase many African dishes that are seafood

問3 Daiki thinks that in Cape Town.

- ① mountains are the only sightseeing spots worth visiting
- ② the local food is more interesting than the natural scenery
- ③ there are many film locations
- ④ visiting the top of a famous mountain is rewarding

問4 One fact about Sutherland is that .

- ① it is more interesting than Cape Town
- ② stars can be seen just by looking up in the sky
- ③ there are many restaurants serving various international dishes
- ④ you have to drive long hours to get to the beautiful beach

問5 After returning from South Africa, Daiki wished .

- ① he had more time to stay in South Africa
- ② his home country's night skies were as clear as South Africa's
- ③ to eat more South African cuisine
- ④ to stay in Cape Town rather than Sutherland

第3問 (配点 4点)

An exchange student in your school was looking for a new hobby. You are reading an article in a magazine called *New Sports* for him.

My First Club Activity in a Foreign Country

Bob Andrews

6 months have passed since I arrived in the UK. The first few months were filled with many surprises because this was my first visit. However, I am now used to my surroundings and things were getting a little boring. It was now time for me to find a new hobby. I wanted to find something that would improve not just my physical capabilities but improve my intelligence, because who doesn't want that?

My demand was met when I encountered chess boxing. It's a sport in which players do both chess and boxing. First, there is a round of chess, then a round of boxing, then another round of chess, and so on. Chess is played over six rounds of four minutes each, while boxing matches are held over five rounds of three minutes each. Matches last four minutes per round in chess and three minutes in boxing, with a one-minute interval between rounds. The rules of chess and boxing respectively seem to be similar in chess boxing. The game is settled by either chess or boxing, whoever wins or loses the game. In chess, the method of decision is checkmate, end of time, or resignation. In boxing, KO, TKO, referee stoppage, etc. If both boxing and chess are not settled, the winner is decided by a boxing decision.

To win at chess boxing, which should you practice more? It seems that there are more players who are stronger in chess than in boxing. I first thought that being better at chess wouldn't make you advantageous as it is highly unlikely to lose a chess game in four minutes. However, the judge will deem you to be the loser if you are simply trying to kill time. I experienced it to be difficult to think of a move when you are tired from boxing, as your heart rate is elevated, you have taken a blow to the head, and you are time-bound by the rules of chess. Even answering simple questions between rounds is a challenge. And it is even more difficult when playing chess.

問1 From the article, what is true about chess boxing?

- ① It is a sport that alternates between chess and boxing.
- ② It is one of the most popular sports in the UK.
- ③ You may receive punches when you are playing chess.
- ④ You need to win both the boxing and chess match.

問2 What did Bob learn from the chess boxing experience?

- ① The boxing matches in chess boxing are not physically demanding.
- ② The chances of losing a chess match in four minutes are very small.
- ③ There are more chess players than boxing players in the UK.
- ④ You should not take playing chess too lightly in chess boxing.

第4問 (配点 8点)

In English class, you are writing an essay on a social issue you are interested in. This is your most recent draft. You are now working on revisions based on comments from your teacher.

What to Do When There Is Money on the Ground	Comments
<p>Everyone loves money. Let's say you find money that you love so much on the ground, and you pick it up. There is no better way to get money in such a simple, effortless, and favorable situation. However, from various perspectives, such as legal and ethical, you must be careful about what to do with the money when you encounter such a situation.</p>	
<p>If you happen to find a wallet or a large sum of money, it is advisable to report it to the police, as it may well be lost property. It is ethically healthy to deliver it to the owner. If the owner does not show up or it turns out there is none, the ownership will be transferred to you. (1) It is such a great scenario in which you conduct a noble deed and still get the money.</p>	
<p>However, (2) <u>one thing that often happens is that you don't find paper bills on the street.</u> From an everyday point of view, a small amount like this is usually kept for oneself without reporting it to the police. In fact, many people do not want to pick up small change, so most likely it will remain on the street for a long time. (3) <u>By picking up the small change and buying something with it, the change is returned to the economic cycle.</u> From this point of view, picking up and spending small change may seem to be a good thing to do.</p>	<p>(1) You are missing something here. Add more information between sentences to connect them.</p> <p>(2) This topic sentence doesn't really match this paragraph. Rewrite it.</p> <p>(3) Insert a connecting expression here.</p>
<p>However, even if the amount of lost money is extremely small, it is strictly advisable to report it to the police. According to law, no matter the size, if the money found is not submitted to the appropriate authorities, you may end up in jail or pay a fine of up to 100,000 yen.</p>	<p>(4) The underlined phrase doesn't summarize your essay content enough. Change it.</p>
<p>In conclusion, the preferred action does not depend on the amount. If you pick up money on the street, you should report it to the police station. If the owner does not show up, you can (4) <u>do something.</u></p>	
<p>Overall Comment: I see a lot of improvement in your writing. Keep up the good work! (Have you seen any large amount of money? I wish I had because my salary is quite low! 😊)</p>	

問1 Based on comment (1), which is the best sentence to add? 11

- ① In some cases, the government will become the owner of the lost money.
- ② In some cases, the owner will show up and share a percentage of the lost money.
- ③ In some cases, what you thought was lost money may turn out to be fake money.
- ④ In some cases, you may have to report the time, place, and situation of finding the lost money.

問2 Based on comment (2), which is the best replacement? 12

- ① one thing that often happens is that paper bills change into coins
- ② one thing that often happens is that the amount of lost money changes
- ③ one thing that often happens is that the situation surrounding the lost money changes
- ④ one thing that often happens is that a small change is found on the street

問3 Based on comment (3), which is the best expression to add? 13

- ① Also
- ② By the way
- ③ On the contrary
- ④ Otherwise

問4 Based on comment (4), which is the best replacement? 14

- ① find a lawyer to prove your innocence
- ② ignore it altogether and go along with your day
- ③ keep it in your own pocket
- ④ throw away the lost money

第5問 (配点 18点)

Michelangelo and Dan are studying to become movie producers in the US. They are working on a project to create an imaginary schedule for filming and releasing movies. They are exchanging emails to discuss the project.

March 23, 2025

From Michelangelo

Hi, Dan! I made a rough release schedule for our movies planned to be released in 2026. The black circles show the cinema release date, or when they will be released in movie theaters. The month the black circle appears means that the first day of the month will be the release date. For instance, the release date of the *Adventure of the Lost Tale* is April 1st, 2026. The white squares show the streaming release date, or when it will stop playing in theaters and be released on streaming platforms. The month the white square appears means that the first day of the month will be the streaming release date. For *Adventure of the Lost Tale*, it will be August 1st.

Title	Director	Genre	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Adventure of the Lost Tale	Daniel Patrick	Adventure		●				□				
Dramatic Events of Life	Ashley Kale	Drama	●			□						
Slipping Laugh	Greg Manington	Comedy								●	□	
I Love Me	Justin Cooler	Romance										●
Scare Me or Scare You	Chris Angerwood	Horror						●	□			
Upward Gravity	Luis Smart	Sci-Fi									●	

Adventure of the Lost Tale is directed by the great Daniel Patrick, who has directed many hit movies. I predict that this movie will do very well and want it to play in theaters as long as possible so we can generate maximum revenue. I am scheduling the streaming release so that the theatrical window will be roughly 120 days, meaning the movie will play only for this period in theaters before hitting streaming platforms. Chris Angerwood is also a great director with many hit movies throughout his career. However, horror doesn't really attract many visitors, so I am planning the theatrical window to be around 30 days. For the theatrical window of *Dramatic Events of Life*, from the schedule, I am thinking of about days. For *Upward Gravity*, I would like the theatrical window to be 150 days, so the streaming release month will be .

What do you think?

March 24, 2025

From Dan

Dear Michelangelo,

Your scheduling is excellent! I was thinking of the shooting locations and the production costs. I've read through the script and figured out what locations are needed for each movie. Here's the chart. The black circles indicate the shooting locations for each movie. The location fees are mentioned right next to the shooting locations.

Shooting Location (fee)	Daniel Patrick	Ashley Kale	Greg Manington	Justin Cooler	Chris Angerwood	Luis Smart
Jungletopia (\$7,000/day)			●		●	
Desertopia (\$1,200/day)		●		●	●	
Islandtopia (\$3,000/day)	●	●		●		?
Buildingtopia (\$5,000/day)	●		●			
Farmtopia (\$2,500/day)	●	●				
Icelandtopia (\$1,500/day)				●	●	

We don't have the exact information of how many days each location is needed for a certain movie. However, we can still manage to figure out a rough estimate of the total shooting cost. Let's say, for instance, that all shooting locations are used for 30 days for each movie. In this case, when excluding Luis Smart, the movie with the most expensive shooting cost will be the one directed by . Considering the theatrical window, will this be an issue?

Another issue I would like to point out is that the shooting location for Luis Smart's movie is not mentioned in the script. He doesn't have a specific idea of shooting locations for the time being and doesn't mind rewriting the script so that it goes along with the shooting location. We shouldn't use one location too much. That said, we should limit up to 3 movies maximum per shooting location. If Luis Smart wants to use as many shooting locations as possible within the limit, the total shooting cost will be .

March 25, 2025

From Michelangelo

Dear Dan,

Thanks for the quick reply!

To answer your question regarding the theatrical window, I may need to edit the schedule I made previously. I want every movie to generate more revenue than the shooting cost during their theatrical window. I realize that, in reality, there are many other factors that contribute to the cost of movie production, like marketing, staff and actor employment, licensing, and so on. For now, let's only think about the shooting costs.

Title	Director	Genre	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Adventure of the Lost Tale	Daniel Patrick	Adventure		●				□				
Dramatic Events of Life	Ashley Kale	Drama	●			□						
Slipping Laugh	Greg Manington	Comedy								●		
I Love Me	Justin Cooler	Romance										●
Scare Me or Scare You	Chris Angerwood	Horror						●			□	
Upward Gravity	Luis Smart	Sci-Fi									●	

Above is the re-edited schedule. The black circle is the cinema release date, and the white square is the streaming release date as described in my previous email. Each cell is around 30 days. There seems to be no specific number for average monthly movie revenue, so I made up my own. Let's say that every movie generates \$100,000 a month. The black circles are fixed, and I have only moved the white squares so that each movie will generate revenue that is above the shooting cost with the least number of months playing in theaters. The streaming release month for *Slipping Laugh* will be moved to . As for the streaming release month for *I Love Me*, it will be moved to .

問1 Choose the best option for .

- ① 30
- ② 60
- ③ 90
- ④ 120

問2 Choose the best option for .

- ① January
- ② February
- ③ March
- ④ April

問3 Choose the best option for .

- ① Ashley Kale
- ② Chris Angerwood
- ③ Daniel Patrick
- ④ Greg Manington
- ⑤ Justin Cooler

問4 Choose the best option for .

- ① \$210,000
- ② \$360,000
- ③ \$435,000
- ④ \$480,000

問5 Choose the best option for .

- ① December
- ② February
- ③ March
- ④ June

問6 Choose the best option for .

- ① December
- ② February
- ③ March
- ④ June

第6問 (配点 16点)

You are writing an essay about whether high schools should replace traditional paper books with e-books in class. You will follow the steps below.

Step 1: Read and understand various viewpoints about e-book usage.

Step 2: Take a position on high school students' use of their e-books in class.

Step 3: Create an outline for an essay using additional sources.

[Step 1] Read various sources

Author A (Teacher)

I often have debates with my colleagues about whether e-books are beneficial for student development and should be implemented in school curriculums. Surely any changes have their ups and downs, but I see this more positively. We are living in a digital era where it is even common for small children to use a tablet easily. For the students to thrive in the future, they should learn how to apply their digital skills to their studies. In fact, we should allow all students to use e-books so that no students get left behind.

Author B (School principal)

When the idea of e-book usage was brought up, I was thrilled as to how it might innovate the way of teaching. Our teachers and I brainstormed many ideas on how we could implement e-books into the class so that it would stimulate students to find out more about the topics discussed in class and have more constructive discussions. However, we found that some students were simply surfing the web and not concentrating in class or texting other students about issues in the class. That's not all. We give out a test at the end of the school year to see how much the students remember the yearly course. The average test results dropped significantly lower compared to test results from before the introduction of e-books.

Author C (Psychologist)

Initially, one might think that there is no difference in learning outcomes between regular paper books and e-books. However, recent experimental results show that this is an absolute misunderstanding. A recent study of test scores between students who studied with paper books vs digital format showed that those who stuck with the former had overwhelmingly higher test scores. Another related test experiment found that the former showed test scores of 2.5 years' worth of learning, while the latter only showed less than a year's worth. Research measuring students' reading comprehension skills also supported such a view.

Author D (Parent)

I can understand that schools use e-books for their class. It's very efficient to take a class and search for something on the internet you didn't know on the spot, or quickly type notes on a document file instead of writing them down on paper. Learning to collect and organize information on the spot in this way is certainly important for the future. However, I worry slightly that my daughter doesn't give her eyes a break all day because all she does when she gets home is use her computer or smartphone. I don't want her to go blind by the time she graduates from high school!

Author E (High school student)

I find it inevitable for schools to use e-books instead of paper books because we live in a world where the use of digital media is unavoidable. Also, in these days of SDGs, it would be quite natural to replace the use of paper media with electronic media. Natural resources are becoming scarce because people are overusing them, which is partly responsible for the bizarre climate change caused by environmental destruction. Just look at last year's sequence of unusually hot summer days!

問1 Both Authors A and E mention that .

- ① using e-books in class helps students adapt to today's digital world
- ② using e-books in class helps students carry fewer course materials to school
- ③ using e-books in class helps students learn more creatively
- ④ using e-books in class helps protect the global environment

問2 Author C implies that .

- ① collecting data from a large number of subjects is necessary to prove whether a hypothesis is true or not
- ② research data cannot always explain the problems people face
- ③ when given two options, the best solution is the one that combines the two
- ④ what we casually thought was true is not always supported by research

[Step 2] Take a position

Now that you understand the various viewpoints, you have taken a position on high school usage of e-books in class, and have written it out as below.

Your position: It is best for high schools not to replace traditional paper books with e-books.

- Authors and support your position.
- The same argument of the two authors: .

問3 Choose the best options for and . (The order does not matter.)

- ① A
- ② B
- ③ C
- ④ D
- ⑤ E

問4 Choose the best option for .

- ① using e-books has a rather negative impact on students' communication skills
- ② using e-books has not been very effective in terms of building up students' knowledge
- ③ using e-books in the classroom is not an effective method for students to improve their digital skills
- ④ using e-books in the classroom reduces students' level of concentration in class

[Step 3] Create an outline using Sources A and B

Outline of your essay:

Using e-books instead of traditional paper books in class is not a good idea

Introduction

In today's digital society, replacing paper books with e-books in classrooms seems to be reasonable. However, that is not the case when we look deeper into this issue.

Body

Reason 1: [From Step 2]

Reason 2: [Based on Source A]

Reason 3: [Based on Source B]

Conclusion

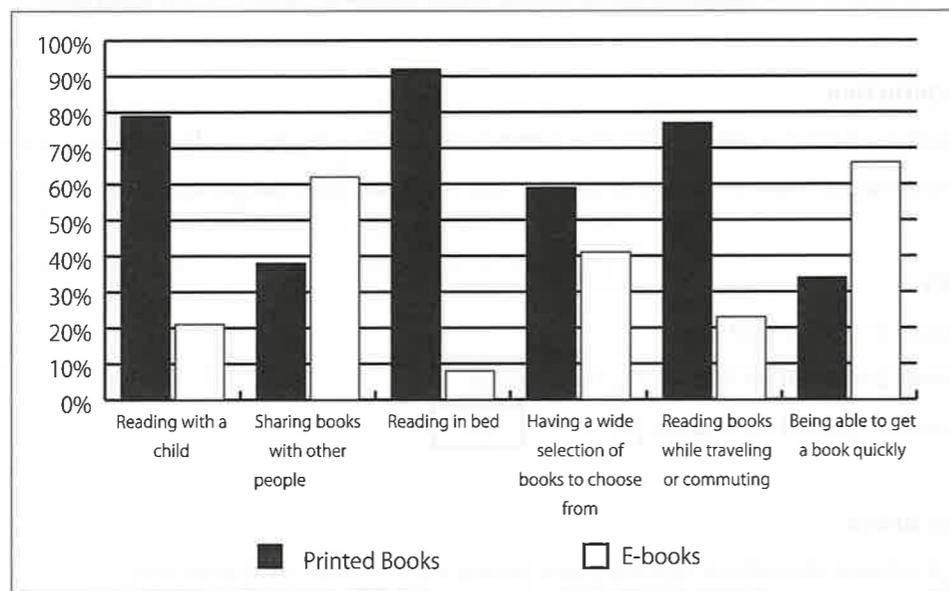
High schools should not replace paper books with e-books in classrooms.

Source A

An experiment showed that text scrolling decreases contextual understanding while turning the pages of a real book showed improvement. This is because the accompanying physical information plays a major part in understanding the context. Simply text scrolling in e-books makes it difficult to organize the links of information, such as its relations with the context before and after. Reading a real book, on the other hand, involves physical actions, such as knowing where a sentence is on a page, turning the page when you have finished reading it, and physically knowing where that sentence is in the whole book. From the difference in process, it was found that subjects who read the actual book remembered the contents of the book in time-order sequence better than those who read the e-book. Therefore, in addition to visual information, information involving the five senses is a major cue in contextual understanding and memory storage. E-books, which involve only text scrolling and no page-turning, are found to significantly reduce these cues.

Source B

A survey was conducted on which adults like to use, physical books or e-books, in designated situations.



問5 Based on Source A, which of the following is the most appropriate for Reason 2?

26

- ① Compared to just using e-books, using both e-books and physical books showed no difference in the level of reading comprehension.
- ② Reading comprehension is more effective when accompanied by a variety of stimuli, not just visual ones.
- ③ Students should look for physical cues when reading e-books to get a better understanding of the context.
- ④ The act of scrolling down pages allows users to organize information by the order of sequence.

問6 In considering Reason 3, you have been looking at Source B. According to the graph, which of the following statements is true? 27

- ① Although in most of the situations the survey respondents are in favor of printed books, over half of them chose e-books for accessibility and sharing with multiple people.
- ② It seems that e-books are not a favorable option for reading in bed as only slightly more than a quarter supported it.
- ③ The act of owning physical books is fulfilling to the majority as more than three-quarters favor physical books over e-books.
- ④ When traveling or commuting, both physical books and e-books seem to be used at the same frequency.

第7問 (配点 18点)

Your English teacher has told everyone in your class to choose an imaginary story in English to read. You will introduce the following story to your classmates, using a worksheet.

John was nervous. He was standing in the same place where he tasted defeat a year ago, the top of Cooper's Hill near Gloucester. He went through hard training but had not forgotten the defeat. He was about to take on this year's Cheese Rolling Festival...

Two years ago, John, who loves cheese, saw the Cheese Rolling Festival on TV and discovered purpose in his life. The Cheese Rolling Festival, a tradition in Gloucester, England, is a competition in which approximately 3 kg of Double Gloucester cheese rolls down a steep slope over 180 meters up Cooper's Hill. The first person to chase it and cross the finish line at the bottom of the hill wins the cheese. Previously, participants were to grab hold of the cheese to be the winner. However, that rule was abolished because the 3 kg of cheese rolled down with so much force causing many injuries. Moreover, participants also roll down the steep slopes with the same force as the cheese, so local rugby players stand by at the foot of the hill to tackle and restrain the participants. Even emergency teams are standing by alongside the rugby players. Sure, you don't have to go through this painful experience to get some Gloucester cheese, as you can simply buy it. However, the cheese that you have risked your life to acquire would be exceptionally tasty. This was enough reason for John to take part in the festival.

John analyzed various videos of the Cheese Rolling Festival and developed a strategy for Cooper's Hill. He believed that if he rolled early, he would not be able to adjust his speed and depend entirely on gravity and the ground, leaving it up to luck. He decided to stay as upright as possible and run as far as he could to increase his chances of winning. In order to do so, strong legs are necessary to keep your balance on steep slopes. Therefore, he trained his body hard with various squats and sit-ups at the gym. John, who had never trained seriously, learned every

possible aspect of leg and core fundamentals and training methods from his friend and professional trainer, Greg. Greg explained that lower-body muscle-building alone, which improves short-term instant strength, was somewhat unsuitable for long-term endurance. He then began to take up jogging long hours. Thus, after about a year of living like an athlete, he took part in his first Cheese Rolling Festival.

On the day of the festival, John was standing proudly at the top of the hill with the other participants. Despite having no experience in the festival, he imagined he would win as he thought he had a physical advantage compared to the veterans. And so, the time finally arrived. The cheese was released, and the participants followed, releasing themselves from the top of the hill. As if their heads had suddenly disappeared during their second or third step forward, they lost their balance and fell prey to the steep slope. Convinced that he was not going to be swallowed up by the slope, John ran down. While many participants were rolling like snowballs, he managed to keep his balance. He was confident that he would keep going and cross the finish line, but around a quarter of the way up the hill, his legs tripped, and he rolled off. Moreover, among the participants who were rolling off sooner than him, some reached the finish line faster. John ended up not winning and was at a loss.

Finally, John got to his feet and asked one of the participants, Adam, who was faster than him for his secret. He answered that you will lose your center of gravity as soon as you run and try to control things. The trick, he said, is to leap like a gazelle and keep your balance by leaning backward as if you are surrendering yourself to the hills. It is a simple philosophy of letting go of control and go with the flow, using your environment to the fullest. John thanked him for his wisdom and returned home.

With his newly discovered strategy in mind, John made a plan for the next year's festival. A few days later, he put his philosophy into practice by setting up a steep slope resembling Cooper's Hill in his backyard. Last year, he was thinking heavily about racing down the slope, but this time he practiced leaping while maintaining balance. After one year of hard practice, John was once again standing, but this time nervously, at the top of the hill.

Your worksheet:

1. Story title

"Cheese is the Purpose of Life"

2. People in the story

John: main character

Greg: personal trainer who gives training advice to John

Adam: one of the participants of the Cheese Rolling Festival and

3. What the story is about

John's growth as a participant in the Cheese Rolling Festival

1) He decided to participate in the Cheese Rolling Festival.

2)

3)

4)

5)

6) He was standing on Cooper's Hill again.

4. Facts about the Cheese Rolling Festival

5. Memorable part of the story

When John was standing nervously at the top of the hill. This shows that John

6. Why I chose this story

Even though the story may seem silly at first, there is a deep life lesson that you can learn from. I think that the trick John learned from Adam can be applied to a life lesson that .

問1 Choose the best option for .

- ① gives advice on how to reach the bottom of the hill quickly
- ② gives advice on how to roll down the hill quickly
- ③ gives advice on how to throw other participants off balance
- ④ gives advice on how to train your legs effectively

問2 Choose four out of the five descriptions (①~⑤) and rearrange them in the order that they happened. → → →

- ① He analyzed countless videos.
- ② He earned the cheese and treasured it.
- ③ He made a slope to practice on.
- ④ He ran long distances.
- ⑤ He trained his legs and core for muscle growth.

問3 Choose the best options for and . (The order does not matter.)

- ① Rugby players stand at the top of the hill to release the heavy cheese.
- ② Rugby players wait at the bottom of the hill to catch the participants.
- ③ Shortage of emergency teams occurs on many occasions due to many injuries.
- ④ The aim of the competition is to catch the rolling cheese.
- ⑤ To win, you need to reach the finish line before the other participants.

問4 Choose the best option for .

- ① lost confidence by receiving bad remarks from the participants
- ② was cautious after his disastrous defeat in the last competition
- ③ was frightened by the height of Cooper's Hill
- ④ worried he might be tragically injured

問5 Choose the best option for .

- ① to achieve something, it is best to put in effort while considering the surroundings around you
- ② to be happy in life, it is best not to think too much and to do what you enjoy
- ③ to have a belief so strong as to ignore others' opinions is the key to success
- ④ to recover from failure, a person must think about the people he cares about

第8問 (配点 20点)

You are preparing a poster for an in-school presentation on a scientific discovery, using the following article.

Many scientific inventions and discoveries that made a considerable impact on human history were not planned but were accidental. However, this does not mean that we should only rely heavily on coincidences, but rather have a keen insight and honest curiosity to make use of such coincidences and to act enthusiastically based on such insights. The discovery of penicillin is one of the best examples of this.

Before the discovery of penicillin, doctors could not treat infection from even the slightest wound. The turning point started with Alexander Fleming, a professor of bacteriology at St. Mary's Hospital in London. On 3 September 1928, Fleming returned from holiday and began sorting petri dishes containing staphylococcus, a bacteria that causes sore throats, food poisoning, and skin infections. While several petri dishes had staphylococci growing on them, only one had a very small mold with no staphylococci growing around it. As it sparked his curiosity, he examined that petri dish under the microscope, and, to his surprise, there was no staphylococcal growth around the mold. For further investigation, he collected as much mold juice as he could, conducted experiments, and, to his surprise, found that it could kill off a variety of harmful bacteria. However, he was unable to obtain further findings as he could not extract mold juice with high purity. Fleming subsequently published his findings in the British Journal of Experimental Pathology in June 1929 but made little mention of the potential benefits of penicillin.

The publication of Fleming's findings sounds as if the penicillin research had been put to an end. However, it served to hand the torch to other researchers. As if to complement Fleming, a professor with no laboratory resources or chemistry background to isolate and purify the active ingredient in the mold juice and investigate its characteristics, the penicillin research was placed in the hands of Dr. Florey. He excelled at obtaining research funding from the government and had extensive

experience managing large laboratories with numerous chemists. The penicillin research that he led began to fully take shape around 1939 when war made research particularly difficult. To carry out animal and clinical experiments, the team used about 500 liters of filtered mold juice per week. They used a variety of objects, from cans to baths, as mold-growing containers and later developed an original container that could efficiently replace the mold-growing medium without disturbing mold growth on the medium's surface. They even hired supervisors to monitor the process. In the summer of 1940, they experimented on 50 mice infected with lethal streptococci. Half of the mice died, while the other half with penicillin injections survived. With this animal study proving the effectiveness of penicillin, Florey moved on to human trials.

However, the fact remained that they were not equipped with the technology to produce enough pure penicillin to cure a human being completely, as it was estimated about 2000 liters of mold-growing fluid were needed. This led to the death of the first test case, Oxford police officer Albert Alexander. He had injured his face while working in his home rose garden and contracted infections, which spread to his eyes and scalp. He was admitted to a clinic and treated, but the infection worsened. On hearing this case, Florey advised Albert's doctor to administer penicillin, which he agreed to. After several days of administration, Albert's body showed signs of recovery, but due to a lack of penicillin, he was unable to overcome the illness and eventually died a few days later.

Large-scale clinical trials and a sufficient supply of penicillin were needed to demonstrate that penicillin could fully cure the disease. Florey believed that mass production of penicillin was impossible in Britain during that time when the chemical industry was deeply committed to warfare. Therefore, with the support of the Rockefeller Foundation, he and his team decided to go to the USA.

Florey believed that the penicillin mold he had been using could not produce enough penicillin to help people recover fully, so he searched for a species that could do so. One day, when his assistant bought a melon at the market, it was covered in a special-looking mold. Coincidentally, it turned out to be a different species of penicillin mold, which successfully produced 1000 times the amount of penicillin compared to the mold used previously.

During the war, penicillin proved particularly competent. Historically, the main cause of death in war was not battle wounds themselves, but rather infections due to the wounds. As this had been proven to be the case in World War I, the development of mass production of penicillin by Florey during World War II attracted massive attention. It is estimated that the mass administration of penicillin during the war saved approximately 80-200 million lives, although exact figures are unknown.

Your presentation poster draft:

The Discovery of Penicillin

Basic information

37

Penicillin...

- A. is a substance that required much research for mass production.
- B. is a substance that needs to be in large quantities to have the desired effect.
- C. is a type of substance that kills off harmful bacteria.
- D. is a type of substance extracted from mold.
- E. is an artificial substance that does not exist in nature.

The history of penicillin

- 1) Among many petri dishes with bacteria, one of them had a spot without it.
- 2) Through careful examination, Dr. Fleming found a substance in the petri dish that kills harmful bacteria.
- 3) }
- 4) }
- 5) }
- 6) }
- 7) The substance was used in WWII, saving millions of lives.

38

About Dr. Florey

39

40

Appropriate usage

41

- infections due to injury

問1 You are checking your poster. You spotted an error in the basic information section. Which of the following should you **remove**? 37

- ① A
- ② B
- ③ C
- ④ D
- ⑤ E

問2 You are going to summarize the history of penicillin. Choose the best combination of events to complete the chart. 38

- A. A human trial was conducted with the substance and follow-up observations were made after administration.
- B. Animal studies demonstrated the effectiveness of the substance.
- C. Attempts to produce the substance were made using everyday items and unique containers.
- D. Due to the government's orders, research on the substance was handed over to another researcher.
- E. The newly discovered species of the substance was used for the substance's mass production.
- F. The researchers came to the USA to conduct many clinical trials by forming an alliance with numerous countries.

- ① B → A → F → E
- ② B → C → A → E
- ③ C → B → A → E
- ④ C → B → A → F
- ⑤ D → B → A → F
- ⑥ D → C → B → A

問3 From the list below, select the two that are TRUE about Dr. Florey. (The order does not matter.) 39 · 40

- ① He discovered the existence of penicillin alongside Dr. Fleming.
- ② He had wide experience in coordinating a range of different researchers.
- ③ He preferred to work alone rather than in a team.
- ④ He was assigned to the penicillin research to assist Dr. Fleming.
- ⑤ He was skilled at obtaining funds from the officials.

問4 From the passage, which of the following best suits the usage of penicillin? 41

- ① heavy blood loss from a deep cut
- ② severe headache caused by depression
- ③ sore throat caused by catching diseases
- ④ unusual fatigue due to food shortages

問5 We cannot infer that the passage 42 .

- ① could be conveying that animal and human experimentation is not ethical appropriate
- ② could be illustrating the importance of coincidence through the story of penicillin
- ③ could be illustrating that scientific breakthroughs are not the work of one person, but the efforts of many different people
- ④ could be portraying the limitations of medicine before World War II through the story of penicillin's discovery