

解答はすべて解答用紙に記入せよ。

1 次の英文を読んで、下の問いに答えよ。

It looks like a trinket a tourist might pick up as a quaint souvenir, but this fish has the power to cure anemia.

Called the Lucky Iron Fish, the three-inch-long piece of metal functions like a nutritional supplement, only instead of swallowing it, you add it to a simmering pot of food for ten minutes. Doing that can increase the iron content in the diets of users in places like Cambodia, where roughly half of the population suffered from iron-deficiency anemia before Lucky Iron Fish was introduced. The fish just won this year's Cannes Lions Grand Prix in product design.

That an analog device could top out a product design category filled with future-facing technology—like a DNA-sequencing food testing kit and a gamified studio cycling bike—speaks to both (1) its effectiveness and its genius. The designers not only managed to make the treatment foolproof but increased compliance by hacking a local superstition, that fish are auspicious.

Christopher Charles, an epidemiologist, was living in Cambodia in 2008 when he witnessed firsthand the societal effects of anemia. The condition, in which the blood stream doesn't have enough healthy red blood cells [body oxygen pump the throughout to], can lead to extreme lethargy, dizziness, and birthing complications. (2) It's caused by insufficient amounts of iron in the body. A Iron is easy enough to get through certain foods or supplements, but neither were an option in rural Cambodia, where the local diet consists primarily of fish and rice.

B Charles happened to know of a simple, cheap solution: adding a chunk of iron metal to food while (3) it cooks. The heat causes the blocks to release between 60 and 300 milligrams of bioavailable iron, which then gets absorbed into the food or water. That's substantially more than is recommended for one person a day, so you can imagine the iron's effectiveness at improving an entire family's diet at once. Problem was, nobody wanted to use (4) it. It was ugly and unappetizing. It looked like it would ruin a meal. When Charles and his newly formed Lucky Iron Fish partners started troubleshooting, they came across a funny insight into Cambodian culture: the kantrop fish, a staple in the local diet, was also a good-luck symbol. So they started carving the small bricks of iron into little kantrop fish instead. It worked: Women—who do most of the cooking—started slipping them into pots and skillets. There are currently 5,000 of them being used in the kitchens across the country.

Lucky Iron Fish is in its third round of trials now, and so far, has found evidence linking adoption of the fish to a 50 percent decline in iron-deficiency anemia in the area they're being used. It's also a fairly long-term, easily scalable solution: The fish, which are mostly made from recycled car parts, work for up to five years. And the Lucky Iron Fish Project is only getting bigger: The organization has 12,000 fish in the pipeline to be distributed, and is looking into expanding to other Southeast Asian countries, India, and East Africa. In those parts of the world, the fish could take on other culturally relevant forms.

[This Little Iron Tchotchke Can Help Cure a Big Health Issue, Margaret Rhodes, Wired (c) Condé Nast]

注	trinket : 価値のない装身具	quaint : 風変わりな	anemia : 貧血
	swallow : make something go down the throat	simmer : (沸点以下で) ぐつぐつ煮える	iron-deficiency : lacking in iron
	Cannes Lions Grand Prix in product design : カンヌライオンズ大賞 (製品デザイン部門)		analog : analogue
	gamified : ゲーム化された	foolproof : 間違えようのないほど簡明な	compliance : 指示に従った使用
	hack : うまく利用する	superstition : 迷信	auspicious : 吉兆の, めでたい
	epidemiologist : 疫学者	firsthand : 直に, 直接	societal : 社会に関わる
	lethargy : (病的な) 眠気	birthing complication : 出産時の合併症	bioavailable : 生物が利用可能な
	kantrop : カントロップ (魚の一種)	staple : 主食	in the pipeline : 生産中

英語 [問題その 2]

解答はすべて解答用紙に記入せよ。

- 1 [] 内の語句を並べかえて英文を完成せよ。
- 2 下線部 A を和訳せよ。
- 3 下線部 B を和訳せよ。
- 4 下線部 (1) ~ (4) の代名詞が指すものを、それぞれ下のア~サのうちから 1 つ選び、記号で答えよ。
- ア a chunk of iron metal イ a gamified studio cycling bike ウ an entire family's diet エ anemia
 オ an analog device カ a nutritional supplement キ extreme lethargy ク food
 ケ oxygen コ future-facing technology サ the blood stream
- 5 本文の内容と合致するものを、ア~ケのうちから 4 つ選び、記号で答えよ。
- ア Iron can be taken in only through eating certain foods or supplements, but not in rural Cambodia.
 イ The Lucky Iron Fish was introduced to improve the public health situation in Cambodia.
 ウ Small chunks of iron are unappetizing, but they symbolize good luck in the Cambodian culture.
 エ The Lucky Iron Fish is similar to a DNA-sequencing food testing kit in its design and function.
 オ In Cambodia, the kantrop fish is believed to have the power to cure anemia.
 カ The diet in rural Cambodia does not contain sufficient amounts of iron.
 キ The Lucky Iron Fish as a cooking tool cannot be effective for a decade.
 ク In Cambodia, the population with iron-deficiency anemia reduced by half.
 ケ Iron can get absorbed into food and water when they are cooked together.

2 次の各文の () 内に入れるのに最も適当なものを、それぞれア~エのうちから 1 つ選び、記号で答えよ。

- 1 If I had studied harder, I () become a math teacher.
 ア am able to イ can ウ can have エ could have
- 2 Katie said she had seen Ben that day, () turned out to be a lie.
 ア that イ when ウ which エ who
- 3 Do you remember the time () you were a preschooler?
 ア how イ when ウ where エ why
- 4 () goes without saying that you are responsible for your own actions.
 ア It イ That ウ There エ This
- 5 Nobody was seen () or leave the apartment.
 ア enter イ entering ウ to be entering エ to enter
- 6 Little () think I would be where I am now.
 ア did I イ do I ウ I did エ I do
- 7 What are you proud of () last year?
 ア being done イ doing ウ having done エ having been done
- 8 His disrespectful comments made me () than angry.
 ア sad イ sadder ウ more sad エ saddest
- 9 All prices are shown in US dollars, tax ().
 ア include イ included ウ including エ to include

英語 [問題その 3]

解答はすべて解答用紙に記入せよ。

3 次の各文の () 内に入れるのに最も適当なものを、ア～シのうちから1つ選び、記号で答えよ。

- 1 How much did you pay () the ticket?
- 2 Cultural heritage is () great value to humanity in general.
- 3 What is his new book ()?
- 4 Unsophisticated plans like this may cause problems in relation () the right to privacy.
- 5 How did you grow up () a child?
- 6 Some teenagers put posters of their favorite musicians () the ceiling of their room.
- 7 In professional sumo wrestling, *yokozuna* is the highest rank and immediately () *ozeki*.
- 8 () addition to being a great movie, the film was a commercial success.
- 9 () computers, we would not have the Internet.

ア about	イ above	ウ across	エ as	オ for	カ in
キ of	ク off	ケ on	コ to	サ toward	シ without

4 次の各組の二文がほぼ同じ意味を表すように、() 内に適当な語を入れよ。

- 1 David had a good night's sleep last night.
David () () last night.
- 2 I have no one to talk to.
I do () have () to talk to.
- 3 He appears to be a good student.
() appears () he is a good student.

5 次の日本語の意味を表すように、それぞれ() 内の語句を並べかえて英文を完成せよ。

- 1 サムは彼の兄より2歳若い。
(by his brother is Sam than two years younger).
- 2 お酒を飲みすぎない方がよいですよ。
(better drink much not too you'd).
- 3 あなたが何をすることは問題ではない。
(do doesn't it matter what you).
- 4 台所で何かいい匂いがする。
(in kitchen nice smells something the).
- 5 私が2つあるりんごのうちの1つを食べ、彼がもう1つを食べた。
(an and apple ate ate he I other the).

英語 [解答用紙]

'21
II

受 験 番 号	
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1

1	
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2	
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3	
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4	(1)		(2)		(3)		(4)	
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5				
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2

1	2	3	4	5	6	7	8	9

3

1	2	3	4	5	6	7	8	9

4

	1		2		3	

5

1	
2	
3	
4	
5	

解答例

1	1	to pump oxygen throughout the body
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2	鉄は特定の食べものやサプリメントを介して容易に 得ることができる。
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3	チャールズはたまたま単純で安価な解決策を知って いた。
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4	(1) オ	(2) エ	(3) ク	(4) ア
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5	イ	カ	キ	ケ
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2	1	2	3	4	5	6	7	8	9
	エ	ウ	イ	ア	エ	ア	ウ	ウ	イ

3	1	2	3	4	5	6	7	8	9
	オ	キ	ア	コ	エ	ケ	イ	カ	シ

4	1		2		3	
	slept	well	not	anyone	It	that

5	1	Sam is younger than his brother by two years.
	2	You'd better not drink too much.
	3	It doesn't matter what you do.
	4	Something smells nice in the kitchen.
	5	I ate an apple and he ate the other.