

Student's Answer Key, Ch. 3, Transition Expressions and Sentence Flow, *Grammar Advantage*

For most items, this key does not include even-numbered items.

Exercise 1

Most school textbooks say that modern humans left Africa about 60,000 years ago. Recently, however, archaeologists have discovered stone tools in Sharjah Emirate in the Arabian peninsula, which suggests that it may have happened earlier. In fact, the dating of these tools indicates the presence of humans in the area more than 100,000 years ago. Other discoveries have shown that Arabia at that time was cooler, had a wetter climate and was much more fertile. As a result, there would have been more plants, grassland and animals to provide food for a human population.

“However” helps the reader by signaling that contrasting information will follow. “In fact” signals that an additional piece of evidence is to follow. “As a result” signals that what follows is a consequence.

Exercise 2: Recently, however,
In fact, the dating
fertile. As a result, there

Exercise 3

All of them are correctly formed except for these: as the result (→ as a result); another word (→ in other words); for examples (→ for example), in the other hand (→ on the other hand), infact (→ in fact).

Exercise 4

1. *Therefore*, *as a result*, and *consequently* are connectors of result. *Above all* marks addition.
2. *After that*, *afterward*, and *finally* are connectors of time. *After all* is not. (See Appendix C.)
3. *Moreover*, *furthermore*, and *in addition* are connectors of addition. *Thus* marks a result.
4. *However*, *nonetheless*, and *nevertheless* are connectors of contrast. *Meanwhile* is a connector of time. (It sometimes expresses contrast as well.)
5. *In sum*, *to begin with*, and *in conclusion* mark text structure. *In fact* marks addition or contrast.

Exercise 5 **Odd answers only.**

1. Our team had a difficult season. As a result of injuries, they even had to forfeit one game.
3. I'm starting a business. Instead of a boring job with some company, I want a job of my own creation.
5. I want to attend a school with a good recreation center. In addition to (Instead of) studying, I want to enjoy myself.

Exercise 6

1. Running exercises your heart and legs. However, swimming exercises your arms too.
Running exercises your heart and legs; however, swimming exercises your arms too.
Running exercises your heart and legs. Swimming, however, exercises your arms too.
Running exercises your heart and legs. Swimming exercises your arms too, however.
2. For most sports you need equipment. For example, running requires good shoes.
For most sports you need equipment; for example, running requires good shoes.
For most sports you need equipment. Running, for example, requires good shoes.
For most sports you need equipment. Running requires good shoes, for example.

Exercise 7 **Odd answers only.**

1. Joined with a coordinating conjunction: Dogs and cats are both popular pets, but cats are better suited to city living. Joined with a connector: Dogs and cats are both popular pets. Cats, however, cats are better suited to city living. / Dogs and cats are both popular pets. However, cats are better suited to city living. / Dogs and cats are both popular pets. Cats are better suited to city living, however. Joines with a subordinating conjunction: Although dogs and cats are both popular pets, cats are better suited to city living.
3. Joined with a coordinating conjunction: Her new job pays better than her last job, and she finds the work more interesting. Joined with a connector: Her new job pays better than her last job. In addition, she finds the work more interesting.

Exercise 8 Odd answers only.

1. The earthquake survivors will need food and water first, and they'll need blankets and tents or material they can use for shelter.
3. Because raising animals requires vast resources, a diet that is heavy on meat will be more expensive than a vegetarian diet. OR Raising animals requires vast resources, so a diet...

Exercise 9

I got a good high school education. I took a wide variety of courses, I liked my teachers, and I benefited from friendly competition with my peers. I was well-prepared for the university. **However**, my old school has declined in quality since I was there. If I have children someday, I'm sorry to say I don't want them to go to the same school I went to.

Exercise 10 Answers will vary. These are examples.

1. You've done well in all your courses. For example, you got an A+ Advanced Fingerpainting. You've done well in all your courses. In addition, you've won a Nobel prize. You've done well in all your courses. However, you'll never do as well as your big brother. You've done well in all your courses. As a result, Google wants to hire you at \$300,000 a year. You've done well in all your courses. In other words, your parents can now stop complaining.
2. Jacob has money problems. For example, he can't tell the difference between a one-dollar bill and a \$20 dollar bill. Jacob has money problems. In addition, his hair is ridiculous. Jacob has money problems. However, they are nothing compared to his problems with women. As a result, he needs to move in with you for a few months. Jacob has money problems. In other words, he is like everyone else.
3. This is a convenient neighborhood. For example, the bus service is great. This is a convenient neighborhood. In addition, lots of celebrities live here. This is a convenient neighborhood. However, the cheapest apartment is \$2,000 a month. This is a convenient neighborhood. As a result, I want to live here until I die. This is a convenient neighborhood. In other words, you can live here and never have to travel more than 100 meters.

Exercise 11

The world's population is steadily expanding. Moreover, an increasing proportion of that population is living in cities. City-dwellers are richer and eat more. In particular, they eat more food that has been processed. They are also more likely to eat meat, which is the most expensive type of food to produce. In the past twenty years, population growth has slowed to about one and a half percent. The growth in rice harvests has declined by about fifty percent. In other words, we may not have as many new mouths to feed, but we won't have as many new supplies of food to share among them.

Exercise 12

Wheat is physically different from corn in two main ways. First, its genes are arranged in pairs of three, not single pairs. As a result, the wheat genome is much larger than the corn genome. Second, unlike corn, the reproductive parts of the wheat plant are close together, so wheat tends to self-pollinate.

Exercise 13

The main reason for famine in many poor countries is not a shortage of basic food. On the contrary, it is political divisions and patronage that often lie at the heart of the problem. In fact, during the Bengal famine of 1943, government agencies continued to export the results of a successful harvest from some areas. In other areas with bad harvests, however, people were starving to death. This type of problem could be solved by better distribution systems, yet there is often no political will to create such systems. Politicians in power tend not to devote resources to areas where there is opposition. Instead, they are more likely to feed their own supporters.

Exercise 14

1. Women are generally happier living alone than men are, but it's not because they are inclined to solitude. On the contrary, women are likely to have strong social networks, which enable them to live alone without being lonely. In contrast, men generally have fewer friends and close family members, so they are more at risk of withdrawing into isolation.
2. There is no evidence that a positive attitude prevents cancer or helps recovery. On the contrary, one study in which people were followed for almost 30 years found no significant association between any personality traits and the chance of developing or surviving cancer.
3. Who were the first European visitors to North America? Contrary to what is taught in many schools around the world, the Spanish, by Christopher Columbus, were not the first. Vikings from Scandinavia reached what is now Canada in about 500 years earlier.

4. Conventional business leaders look to their customers to find out what they want. In contrast, a visionary entrepreneur can create products that customers never knew they wanted.

Exercise 15

1. Punishing children physically is not effective in the long run. It is true that hitting a child will get his attention and stop him from misbehaving, but the main message is that violence is OK and that the strong have a right to make the weak suffer. (*However* cannot be used instead of *but* unless the punctuation is changed.)
2. Most people would probably agree that soccer is the world's most popular sport. Of course / Granted, many other sports—including rugby, cricket, and basketball—are played all over the world. However, by most measures, soccer is far more popular as a sport to watch and to participate in than any other.
3. It is sometimes said that spices were introduced to Europe as a way of disguising the bad flavor of rotting meat. This is a myth. Of course / Granted, spices might have had the power to overcome the smell of rotting meat, but spices were very expensive. Anyone who could afford spices could afford fresh meat. (*It is true that* cannot introduce the concession unless you remove the comma.)

Exercise 16

Relatively cheap food in western countries has led to increased waste. Granted, some of this waste is perishable food that can't be saved or redistributed. All the same, it is clear that the way people treat food is directly tied to its cost. People must become better educated about food efficiency. Otherwise, the current abundance of food will not last. It may only take one disastrous wheat harvest in China to change everything. In that case, market forces would push the cost of wheat beyond reach for many poorer countries.

Exercise 17

- 1 As a result of industrial pollution, the atmosphere has changed.
- 2 In addition to small changes, such as butterflies moving north, and there are large changes, such as glaciers melting and flowing into the ocean.
- 3 In contrast to some countries with much higher temperatures, a few areas will experience substantially lower winter temperatures.

Exercise 18

- 1 Americans often complain about the U.S. Congress. However / Nevertheless, they tend to have a positive attitude toward their own representatives in Congress.
- 3 A number of stereotypes are associated with people from Minnesota. For one thing / For example, they are said to be reluctant to express strong opinions.
- 5 It's not surprising that one of the most popular boys' names in the US is *José*, a Spanish name. After all, Spanish-speaking people are the fastest-growing minority in the U.S.
- 7 Credit cards make it very easy to spend money you don't have. As a result / Consequently, many consumers are in debt.
- 9 Presidential candidates don't always need government experience to attract voters. On the contrary / In fact, it is often an advantage to have no government experience. Many voters like "outsiders."
- 11 For many years, labor-saving devices have resulted in reduced physical activity. Meanwhile / At the same time, the variety and availability of junk food have increased.
- 13 The public is often very critical of the media. Among other things / For one thing, they sometimes accuse media companies of bias.
- 15 People in North America tend to eat a lot of meat and fat. In contrast, the traditional Japanese diet includes more fish and vegetables.
- 17 What happens if you can't remember your password? Then / In that case you can usually just click a link and you'll be instructed to create a new one.
- 19 You need to save some money. Otherwise you won't be ready for a financial emergency.

Exercise 19

1. Productivity has increased a lot in recent years. Still, there are food shortages.
3. People in the United States might ask, "What should I have for dinner tonight?" In contrast, people in other parts of the world are asking, "Will there be anything for dinner tonight?"
5. Farming in China has increased substantially. As a result of increased in livestock farming, meat consumption has more than doubled in the last ten years.

Exercise 20

- 1 Although some countries have increased their agricultural output, they continue to import a lot of food.
- 2 Instead of (always) reacting to emergency food shortages, we should be working harder to prevent them.
- 3 Because the cost of chemical fertilizers is tied to the price of oil, rising oil prices now mean that fertilizers will cost more later.
- 4 In comparison to the United States, Brazil is a model of efficiency in biofuel production.

Exercise 21

- 1 There have been calls to reduce carbon emissions. Some countries don't want, ~~however~~, these kinds of limitations ... → There have been calls to reduce carbon emissions. **However**, some countries don't want ... OR Some countries, **however**, don't want ... OR Some countries don't want these limitations placed on their productivity, **however**.
- 2 The cost of food is at the mercy of market forces. An example, the spike in food prices in 2007 was caused not by a shortage but by panic buying. → For example, the spike in food prices in 2007....[see 3.3]. As an example this effect, ... > As an example of this effect, ...
- 3 There are some reasons for optimism. To begin, certain major food crops ... > To begin **with**, certain ... [see 3.3]
- 4 India and China have joined the group already. ~~Besides~~, Brazil is expected to join ...

Exercise 22

It is now possible to sequence a human genome in about eight days, at a cost of about \$10,000. Researchers are working on ways to reduce both the time and cost of this process. The most promising way to develop faster, cheaper ways of sequencing is described as "nanopore sequencing." This involves pulling individual strands of DNA through tiny nanoscopic pores. Nanopores are holes about one thousand millionth of a meter wide.

How does nanopore sequencing improve on existing sequencing techniques? All current techniques have to label the DNA chemically and copy it in order to have enough to read it. As a result, the current state of the art technology requires between five and ten days just preparing the DNA. With nanopores, however, virtually no chemical pre-processing is required and no amplification. Instead, a single strand of DNA can be read, one base pair at a time, and without the need for labeling. Moreover, existing sequencing techniques involve breaking DNA into small chunks of less than 100 base pairs. These chunks then have to be sequenced many times to find identifiable overlaps so that they can be pieced together. Nanopore sequencing, on the other hand, can cope with much longer strands, which should help speed up the process.
