

# SOLUTION

## Homework Set

### Scientific Writing in English, Spring 2020

Exercise 1:

Anti-inflammatory drugs may protect against Alzheimer's Disease.

Exercise 2:

Injuries to the brain and spinal cord are among the most devastating and expensive.

Exercise 3:

We call this a flight (leg) based spill model.

Exercise 4:

An IQ test measures an individual's verbal, reasoning, or motor and spatial abilities.

Exercise 5:

Both human and animal studies suggest that diabetics have general immune dysfunction at the leukocyte level.

Alternative: Based on both human and animal studies, X et al. and Y et al. suggest that diabetics have general immune dysfunction at the leukocyte level.

Exercise 6:

We designed the cigarette ads to appeal especially to children.

Exercise 7:

The DSMB committee recommended to halt the study.

Exercise 8:

The editors concluded that the authors (had) falsified their data.

Exercise 9:

Multiple other mechanisms play only a small role or work by impacting one of the three primary mechanisms.

Alternative: Many other mechanisms play only a small role or work by impacting one of the three primary mechanisms.

Exercise 10:

Ponds are rarely hot enough for temperature alone to cause disinfection; thus, the effect of temperature is likely mediated through its impact on the rates of other reactions.

Exercise 11:

Clinical seizures occur in 0.5% to 2.3% of newborns.

Exercise 12:

We were late because of an accident on Interstate 26.

Alternative: Because of an accident on Interstate 26 we were late.

Exercise 13:

The word 'retread' by generally have a negative connotation, but using retreaded or recapped tires is standard procedure in aviation and is regarded as the most practical, economical, and safe method for maintaining proper landing gear function.

Exercise 14:

However, Russia currently lacks a yard capable of building aircraft carriers.

Alternative: However, Russia currently lacks a yard for building aircraft carriers.

Exercise 15:

A time not for words, but for action.

Exercise 16:

Studies have begun to describe the epidemiology of autism, including recent changes in the disorder's prevalence and characteristics.

Exercise 17:

Despite methodologic similarities, classic epidemiology and clinical epidemiology differ in aim. Classic epidemiologists pose a question about the etiology of disease in a population of people; etiologic factors can be manipulated to prevent disease. Clinical epidemiologists pose a question about the prognosis of a disease in a population of patients; prognosis is the probability that an event or diagnosis will result in a particular outcome.

Exercise 18:

- (a) Variant 1: The British are notoriously bad at learning foreign languages. The Dutch are famously good at it. Variant 2: The British are notoriously bad at learning foreign languages, while the Dutch are famously good at it.
- (b) Implementation proceeded at a rapid pace for at least a couple of years as so-called liberal bilateral agreements were negotiated with Korea, Thailand, Singapore, Taiwan, Israel, The Netherlands, Belgium, and, to a lesser degree, Germany.  
Alternative: Use m-dash or parentheses around "to a lesser degree".
- (c) Darwin's Origin of Species, published in 1859, revolutionized biological thinking.  
Alternative: Use m-dash or parentheses.
- (d) The flight attendant role revolves around two major responsibilities: safety and service.
- (e) Sales in 2005 amounted to \$170 billion, broken down as follows: aircraft, \$89.1 billion; missiles, \$15.3 billion; space-related materials, \$37.3 billion; and related products and services, \$28.3 billion.
- (f) Other important commodities purchased by the aerospace industry include primary, nonferrous metals (for example, copper, aluminum, lead); radio, TV, and communications equipment; and scientific and controlling instruments.

Exercise 19:

- (a) There is less pollution in the air, but there are fewer particles of dust. (Less is for items that can't be counted. Fewer is for items you can count. )
- (b) Guests may easily assume that the plane they're boarding is fully owned by their host.
- (c) Whose money is on the table?
- (d) There are many ways to determine the type of aircraft being used on your next flight.
- (e) (Punctuation is correct, inserting a whether would improve the writing.)
- (f)
- (g) For an airplane with a propeller that spins clockwise as viewed from the rear, the moments cause a left yaw.

Exercise 20:

- (a) Henry never slept, so he was occasionally tired.
- (b) Wind tunnel research on conventional single-engine aircraft indicate that about 6/7 of the total yawing moment is produced by the spiraling slipstream and the rest is from asymmetrical thrust.
- (c) We have established the Ascend Aircraft Investment Index (AII) as a dedicated solution to benchmark the rewards and risks of aircraft leasing against those of other industries. We will also discuss the low correlation between returns from aircraft leasing and the general economy or the performance of other indexes, and its causes.
- (d) Then President-elect Barack Obama said that everyone was proud of Sullenberger's "heroic and graceful job in landing the damaged aircraft".
- (e) Computerized reservation systems/global distribution systems (CRSs/GDSs) display airline schedules and prices for use by agents in making reservations.
- (f) The pilot checked whether it rained.
- (g) A worm can bring the Internet to its knees.