

UNIT 14 CONTRAILS



**Target
Vocabulary**

| | |
|----------------------|--|
| Noun: | contribution, impact, condensation, emission, capability, load |
| Adjective: | overall, significant, visible, ultimate, undernourished, broad |
| Adverb: | evenly |
| Verb: | schedule, lessen, trap, reflect, dominate, support, demand, enlarge, cultivate, distribute |
| Phrasal Verb: | break out, calm down, fall out with, get along (with), post up |

Moving flight times from night to day could reduce air travel's **contributions** to global warming, a new study suggests. **Scheduling** more daytime flights may **lessen** the **impact** of contrails—the **visible** streaks of **condensation** that many planes leave **in their wake**. The role of contrails in climate change is still under study, but some scientists believe that they contribute to the greenhouse effect by **trapping** heat in Earth's atmosphere. Nicola Stuber, suggests that contrails' **overall** impact on climate change is similar in scope to that of aircrafts' carbon dioxide (CO₂) **emissions** over a hundred-year period. Aircraft are believed to be responsible for 2 to 3 percent of human CO₂ emissions. Like other high, thin clouds, contrails **reflect** sunlight back into space and cool the planet. However, they also trap energy in Earth's atmosphere and boost the warming effect, the study says. Stuber and other scientists believe that the effect of the contrails is **significant**. "On average the greenhouse warming effect **dominates** the effects of contrails," said Stuber, a meteorologist at England's University of Reading.

I. Read the passage carefully and circle the choice which is the closest in meaning to the word given.

1. "lessen" in line 2 means

- A. raise
- B. reduce
- C. add

2. "impact" in line 3 means

- A. control
- B. effect
- C. package

3. "in their wake" in line 4 means

- A. behind
- B. on purpose
- C. urgently

4. "overall" in line 6 means

- A. specific
- B. unusual
- C. general

5. "significant" in line 12 means

- A. important
- B. enormous
- C. small

How far is the earth able to **support** the increasing requirements for food that an **enlarging** population (1) ___? Figures suggest that only about one hundredth of 1 percent of earth's **ultimate** (2) ___ is being used in food production, but that the (3) ___ on the **cultivated** land of the world, that is, the food producing areas, is not (4) ___ **distributed**. Therefore, although a much larger world population could be fed, there is a competition between the "haves" and "have-nots" for the available food. In **broad** terms, the ratio of the well-fed to the (5) ___ people of the world is 1:6, while about 20 percent of the people in the underdeveloped world are undernourished.

II. Read the passage and circle the best choice.

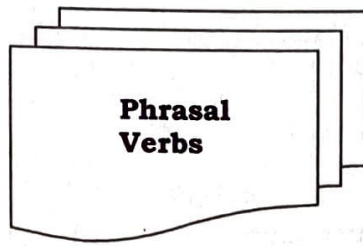
1. A. demands
B. acquires
C. increases
D. boosts
E. claims

2. A. ability
B. capability
C. probability
D. possibility
E. certainty

3. A. purpose
B. emission
C. fertility
D. load
E. poverty

4. A. fortunately
B. evenly
C. absolutely
D. considerably
E. legally

5. A. overweight
B. premature
C. undernourished
D. lucky
E. responsible



| | |
|--------------------------|--|
| break out: | start, usually suddenly (unpleasant things e.g. wars, epidemics, fires, violence etc.) |
| calm down: | become calm / less agitated or upset |
| post up: | put up for display |
| fall out with: | quarrel with someone |
| get along (with): | have a friendly relationship (with someone) |

III. Fill in the blanks with an appropriate word from the list above making changes if necessary.

1. My father was very angry when he learned that I had an accident and it took him hours to _____.
2. My sister has _____ her new boss so she's considering leaving her job.
3. Why can't you and your brother _____ each other? Whenever I see you, you are fighting.
4. In 1939 World War Two _____ and it lasted six years.
5. The manager _____ the new regulations and expected everyone to obey them.

MINI TEST

1. Any ---- to the Education Fund, no matter how small, will be much appreciated.
A) contribution B) impact
C) emission D) condensation
E) capability
2. The metal workers' union is ---- a 20% pay rise this year.
A) dominating B) reflecting
C) enlarging D) demanding
E) distributing
3. World's resources are not ---- evenly. While some countries have abundant resources, others have none.
A) scheduled B) distributed
C) cultivated D) dominated
E) trapped
4. The magazine covers a ---- range of subjects, from sewing to psychology.
A) visible B) overall
C) ultimate D) rising
E) broad
5. A greenhouse stays warm because the glass ---- the heat of the sun.
A) lessens B) enlarges
C) traps D) reflects
E) supports
6. We've had some minor difficulties, but our ---- progress has been good this year.
A) significant B) overall
C) ingenious D) immune
E) undernourished
7. The warnings on cigarette packets have had quite a(n) ---- on smokers.
A) impact B) contribution
C) emission D) load
E) capability
8. We will interview the applicants and make a short list, but the CEO will make the ---- decision on who to hire.
A) visible B) broad
C) immoral D) ultimate
E) immune
9. As the soil is too dry and rocky, it is almost impossible to ----.
A) schedule B) dominate
C) cultivate D) distribute
E) enlarge
10. The fire ---- at about 5:30 a.m., with flames reaching 30 meters into the air.
A) calmed down B) broke out
C) fell out D) got along
E) posted up