

For use with "Quick Answers to Tough Questions About Climate Change" on p. 10 of the magazine

QUIZ

Climate Change

Choose the best answer for each of the following questions. For the analysis section, refer to the article as needed.

CHECK COMPREHENSION

- 1. Based on the article, which of the following do experts say is the result of global warming?**
 - a droughts in some places
 - b heavier rainfall in some places
 - c rising ocean levels
 - d all of the above

- 2. What do greenhouse gases do?**
 - a power homes, cars, and factories
 - b trap some of the sun's heat close to Earth
 - c prevent the sun's rays from reaching the Earth
 - d let farmers grow plants without water or sunlight

- 3. What is the main difference between weather and climate, according to the article?**
 - a There is no difference; the words are interchangeable.
 - b Scientists use the word climate, but most people use the word weather.
 - c Weather describes what's happening on a particular day, whereas climate describes what's happening over a long period of time.
 - d Weather has to do with precipitation, while climate relates to the temperature of a given place.

- 4. President Trump believes that the Paris climate agreement**
 - a puts unfair burdens on American businesses.
 - b does not do enough to reduce greenhouse gas emissions.
 - c will lead to coastal flooding in the United States.
 - d will lead to an increase in the use of solar energy, which he considers dangerous.

ANALYZE THE TEXT

- 5. The author characterizes greenhouse gases as**
 - a toxic and highly dangerous to all life-forms.
 - b necessary, but only in certain amounts.
 - c a workable solution to global warming.
 - d a new alternative energy source.

- 6. Which phrase from the article provides the best evidence for the answer to question 5?**
 - a "Greenhouse gases are invisible gases in the air . . ."
 - b "Some people remain unconvinced that humans are causing the warming . . ."
 - c "The so-called greenhouse effect is a good thing—to some extent."
 - d "Experts have examined the natural factors known to affect Earth's temperature . . ."

- 7. Based on the article, you can infer that most climate scientists would agree that**
 - a carbon dioxide levels cannot rise and fall naturally.
 - b people must work on reducing greenhouse gas emissions.
 - c weeks of extreme cold are a sign that global warming is coming to an end.
 - d all of the above

- 8. In the section of the article about wild weather, which phrase best helps you understand the meaning of the word *exacerbates*?**
 - a "it likely makes them worse"
 - b "as for hurricanes and other storms"
 - c "have published strong evidence"
 - d "natural risks"

IN-DEPTH QUESTIONS Please use the other side of this paper for your responses.

- 9. What effects will a continually warming climate have in the next 30 years and beyond, according to scientists?**

- 10. Why do you think the author decided to present this information in a question-and-answer format? Is this format effective? Explain.**