



# Where in the World Can I Touch a Cloud?

*Where in the World Can I Touch a Cloud?*  
explains how clouds and fog form and visits some  
of the foggiest places in the world!

## What did you learn?

### QUESTIONS

1. Things that form in clouds are ...
  - a. Rain
  - b. Snow
  - c. Hail
  - d. All of the above
2. A front is ...
  - a. A boundary between two huge masses of air that have different temperatures
  - b. A boundary between two huge masses of air that have the same temperature
  - c. The rising action of air that forms clouds
  - d. None of the above
3. Fog forms over western San Francisco because warm air flows over the cold ...
  - a. Atlantic Ocean
  - b. Indian Ocean
  - c. Pacific Ocean
  - d. Antarctic Ocean
4. Walking and riding bikes instead of driving helps reduce ...
  - a. Kinetic energy
  - b. Air pollution
  - c. Accidents
  - d. Gas prices
5. Which desert begins near Tacna, Chile?
6. Which city is sometimes called the *City by the Bay*?

### TRUE OR FALSE?

- |  |   |
|--|---|
| _____ 1. Most clouds stay the same shape.              | _____ 4. The Grand Banks has fishing limits.                                      |
| _____ 2. Hail usually melts before it hits the ground. | _____ 5. The word <i>smog</i> is the combination of <i>smoke</i> and <i>fog</i> . |
| _____ 3. Warmer air is lighter than cooler air.        | _____ 6. Global warming is cooling the oceans.                                    |



## ANSWERS

- 1. d. All of the above.** According to the section "What Is a Cloud?" on page 14, we know that "Rain, snow and hail form in clouds." So, the correct answer is D.
- 2. a. The boundary between two huge masses of air that have different temperatures.** According to the section "What Is a Cloud?" on page 18, we know that "A *front* is the boundary between two huge masses of air that have different temperatures." So, the correct answer is A.
- 3. c. Pacific Ocean.** According to the section "Other Foggy Places" on page 29, we know that "Fog often covers the western part of the city. It forms when warm air flows over the cold Pacific Ocean water." So, the correct answer is C.
- 4. b. Air pollution.** According to the section "Smoke + Fog = Smog" on page 44, we know that "For example, walking or riding bikes instead of driving helps reduce air pollution." So, the correct answer is B.
5. According to page 32, the Atacama Desert begins near Tacna, Chile.
6. According to page 30, San Francisco is sometimes called the *City by the Bay*.

## TRUE OR FALSE? ANSWERS

- 1. False.** According to the section "What Is a Cloud?" on page 6, we know that "Most clouds are always changing shape." So, the correct answer is False.
- 2. False.** According to the section "What Is a Cloud?" on page 15, we know that "The ice pieces do not melt before they hit the ground." So, the correct answer is False.
- 3. True.** According to the section "What Is a Cloud?" on page 16, we know that "Because warmer air is lighter than cooler air, the warm air rises, forming a cloud." So, the correct answer is True.
- 4. True.** According to the section "Grand Banks—The Foggiest Place on Earth?" on page 25, we know that "In the late 1900's the Canadian government placed limits on fish catches in the Grand Banks." So, the correct answer is True.
- 5. True.** According to the section "Smoke + Fog = Smog" on page 39, we know that "The word smog is a combination of smoke and fog." So, the correct answer is True.
- 6. False.** According to the section "Smoke + Fog = Smog" on page 43, we know that "Global warming is raising the level of the sea." So, the correct answer is False.