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# Lesson 1

## Maps and Pictures

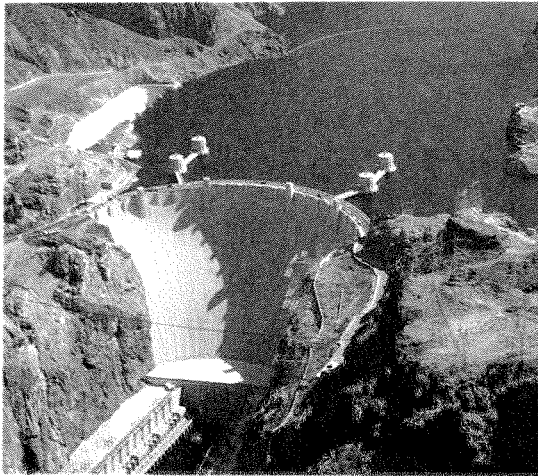
**Objective:** to compare aerial photographs and maps

Most maps today are drawn by cartographers looking at aerial photographs of a place.

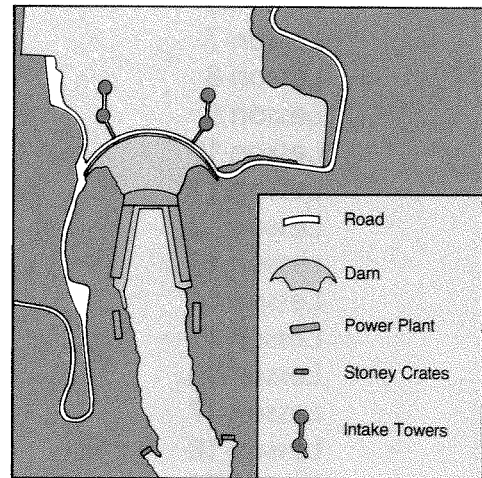
These photographs are taken from airplanes or satellites. The **cartographer** picks out the most important features of a place from the

photograph, and uses symbols for them on a map.

Below is an aerial photograph and map of Hoover Dam. Both the photograph and map show the same area, but in a different way.



Hoover Dam



1. What is one thing that is easy to see on both the map and photograph?
  - a. forests around Hoover Dam
  - b. the shape of Hoover Dam
  - c. the height of Hoover Dam
2. How does the cartographer show the difference between the attached buildings and the dam itself?
  - a. the buildings are striped and the dam is dotted
  - b. the buildings are one color and the dam is another color
  - c. there are no attached buildings shown on the map
  - d. the dam and the attached buildings are all the same color
3. What color represents a road on the map?
  - a. brown
  - b. grey
  - c. blue
  - d. yellow

4. What is one thing that you can see on the photograph that you cannot see on the map?
  - a. the power plant
  - b. the river
  - c. the overflow channels below the dam
  - d. power line towers
5. What color represents water on the map?
  - a. yellow
  - b. brown
  - c. green
  - d. blue
6. What is the land around Hoover Dam like?
  - a. flat
  - b. covered with forests
  - c. rocky and mountainous
7. Was this photograph most likely taken from an airplane or satellite?

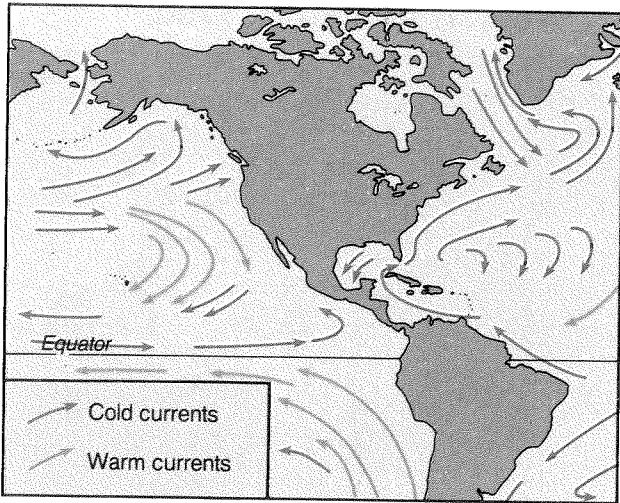
Give one reason for your answer.

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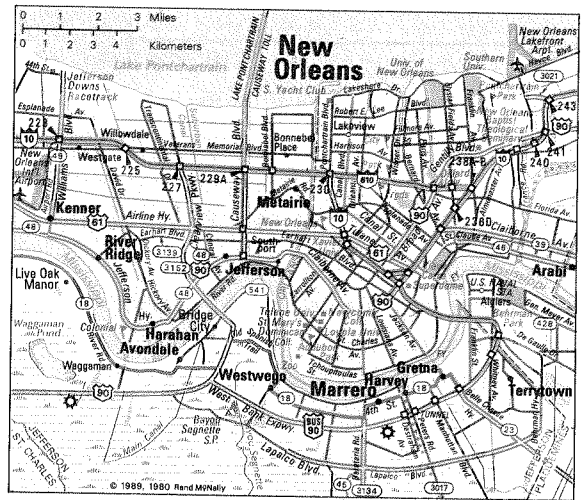
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There are many kinds of maps. Each map is a specialized drawing of all or a part of the Earth. Each kind of map gives different information and has a different use.

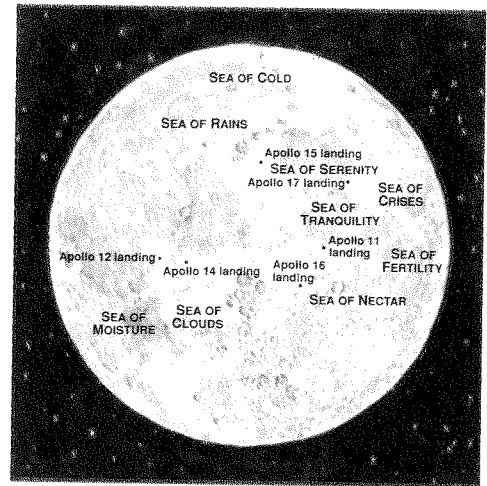
Read the descriptions of each map and use them to answer the questions.



Map A Major ocean currents of North America



Map B Highway map of New Orleans, Louisiana



Map C Map of the near side of the moon

8. Which map shows the smallest area?  
a. Map A    b. Map B    c. Map C
9. Which map would be helpful to sea captains?  
a. Map A    b. Map B    c. Map C
10. Which map shows mountains and lowland features?  
a. Map A    b. Map B    c. Map C
11. Which map would help you get around a city you are going to visit?  
a. Map A    b. Map B    c. Map C
12. Which map would help scientists who are studying the migrating habits of the blue whale?  
a. Map A    b. Map B    c. Map C
13. Which map might show the location of an historical point-of-interest?  
a. Map A    b. Map B    c. Map C

14. Which map would probably be used by the fewest people?

Give one reason for your answer.

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15. Which map would be most useful to oil company workers who are trying to control an oil spill in the ocean off the coast of Texas?

Give one reason for your answer.

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## Lesson 2

# Map Keys

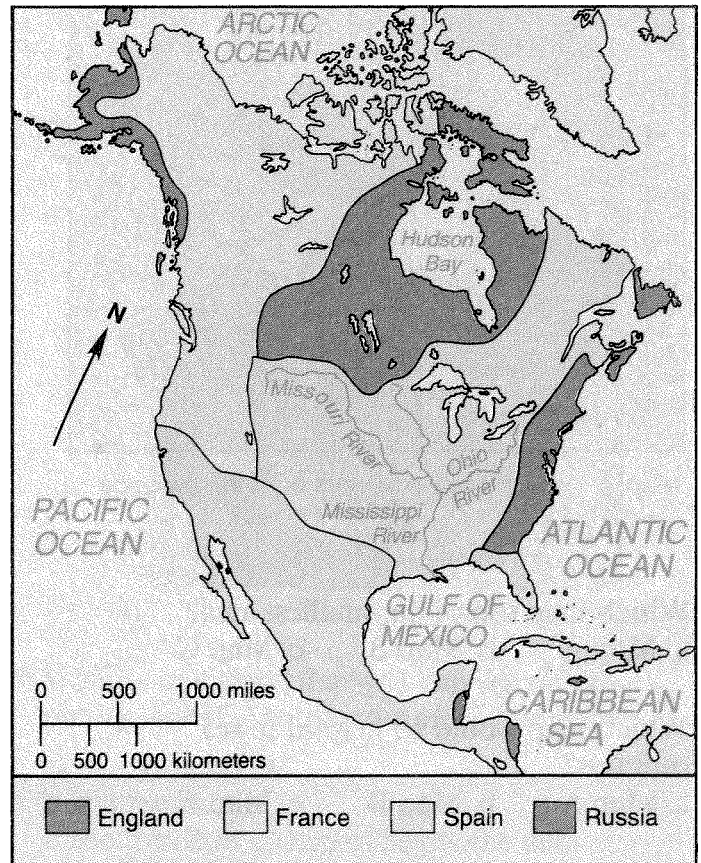
**Objective:** to use a map key to find facts and make comparisons based on map data

**Map keys** give information that is necessary for reading a map. The key explains what the symbols, colors or patterns on the map represent.

Use the map and map key to answer the questions.

- How many countries that claimed land in North America are shown on this map?
  - 6
  - 3
  - 4
  - 5
- What does the color green stand for on the map?
  - land claimed by Spain
  - land claimed by France
  - land claimed by two nations
  - land claimed by England
- Where did the Russians claim land in North America?
  - mainly South America
  - mainly along the part of the northwestern coastline
  - mainly along the Gulf of Mexico
  - mainly on the eastern coastline
- Which country claimed the southern tip of North America that is now known as Florida?
  - England
  - France
  - Portugal
  - Spain
- Which country claimed the area along the Mississippi River?
  - England
  - France
  - Russia
  - Spain

### LAND CLAIMS IN NORTH AMERICA, 1750

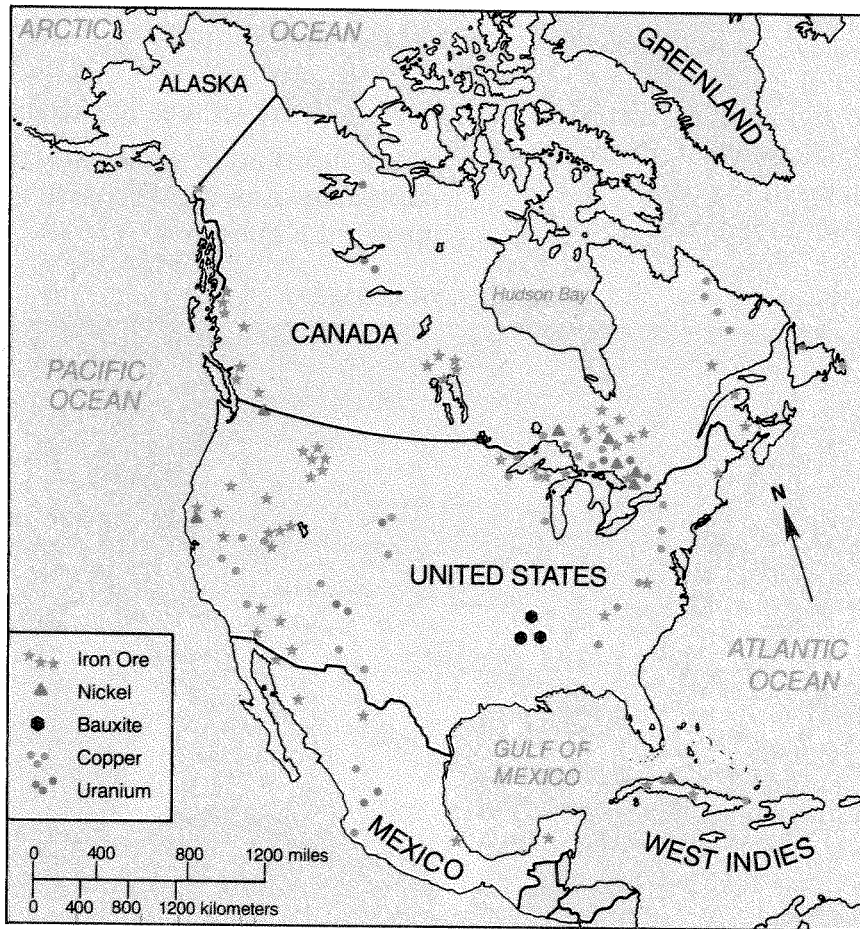


- Which one of these areas was claimed by England?
  - land along the Gulf of Mexico
  - all land along the Pacific Ocean
  - all land along the Arctic Ocean
  - land around Hudson Bay
- Which country claimed the least amount of land?
  - Russia
  - Spain
  - France
  - England

The map below shows some of the minerals found in North America. This map would be

impossible to read without a key. Use the map to answer the questions.

### NORTH AMERICAN MINERAL RESOURCES



8. How many different minerals are shown on this map?

- a. 5    b. 24    c. 103    d. 10

9. In what country is bauxite found?

- a. Canada                      c. Greenland  
b. United States              d. Mexico

10. What are three minerals found in Mexico?

\_\_\_\_\_

\_\_\_\_\_

11. If you own a copper mine and nickel mine, where do you own land?

- a. West Indies  
b. northern Canada  
c. eastern United States  
d. central Mexico

12. What four minerals are found in Canada?

\_\_\_\_\_

\_\_\_\_\_

13. What symbol on the map stands for iron ore?

- a. blue circle                      c. star  
b. red circle                        d. triangle

14. Which country shown on the map mines more of these minerals than any other?

- a. United States                      c. Mexico  
b. Canada                              d. Greenland

15. How many minerals are mined in Greenland?

- a. 2                                      c. 3  
b. 4                                      d. 0