

MAPS CHARTS GRAPHS

States and Regions

Level D

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MAPS CHARTS GRAPHS

States and Regions

Level D

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Picture This

Objectives: to find facts in a picture
to draw conclusions based upon facts in a picture

You can learn many things from a picture if you look at it carefully and notice every detail.

A **caption**, the words near a picture, also gives

you information about the picture.

Study the picture and caption below and use them to answer the questions.

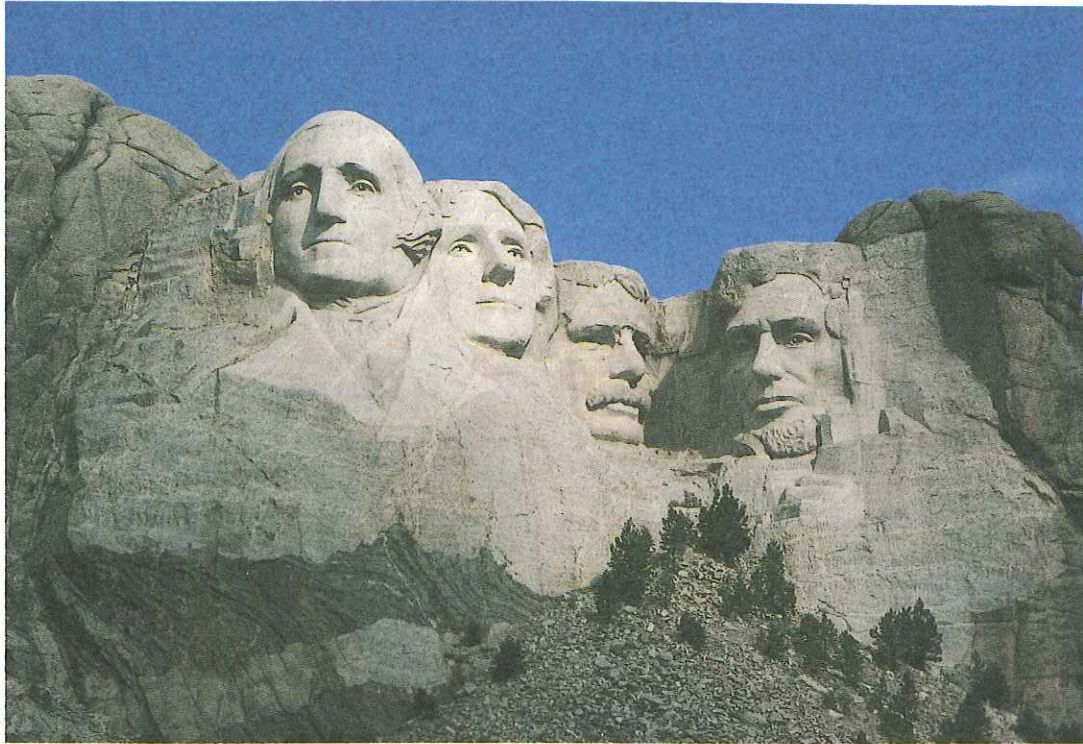


Morning Star and Queen of the West race up the Mississippi River in the late 1800s.

Circle the correct answer.

1. What kinds of boats are shown in the picture?
 - a. American sailboats
 - b. American steamboats
 - c. British warboats
 - d. British ocean liners
2. What time of day is this race taking place?
 - a. morning
 - b. afternoon
 - c. night
 - d. just after sunset
3. What are the people on the bank of the river doing?
 - a. setting fire to one boat
 - b. cheering the boats on
 - c. trying to get the attention of the boats
 - d. wanting to get aboard the boats
4. Which boat is ahead in this race?
 - a. the boat to the left of center
 - b. the boat in the center
 - c. the boat to the right of center
5. What effect do you think boats like this had upon the river transportation of the time?
 - a. They had no effect on the transport of the time.
 - b. They discouraged travel and commerce.
 - c. They encouraged travel and commerce.
6. What are the logs piled on the steamboats used for?
 - a. to burn to make power for the wheel
 - b. to use in ovens to prepare food for passengers
 - c. to trade for other goods farther up river

Study the picture of the Mount Rushmore National Memorial. This monument is found in the state of South Dakota.



The artist, Gutzon Borglum, supervised the blasting of 450,000 tons of granite to form the faces. Each face is about 60 feet from forehead to chin. Presidents shown from left to right are: G. Washington, T. Jefferson, T. Roosevelt and A. Lincoln.

Circle the correct answer.

7. How many presidents are shown in this sculpture?
a. 3 b. 4 c. 5 d. 2
8. Which president's face is the first on the left?
a. Washington c. Roosevelt
b. Jefferson d. Lincoln
9. What are the faces made of?
a. chalk cliffs c. granite rock
b. pine trees d. plaster
10. How long do you think it took to create this monument?
a. a few days
b. a few weeks
c. a few years
11. About how long is each face, from forehead to chin?
a. 10 feet c. 40 feet
b. 60 feet d. 20 feet
12. Why do you think the artist chose these four men for the monument?
a. Because they were all alive to serve as models.
b. Because he felt they were all great presidents.
c. Because he felt they had easy faces to carve.
d. Because they all came from South Dakota.

Maps and Pictures

Objective: to compare maps and pictures

A person who draws maps is called a **cartographer**.

A cartographer uses **surveys** and **aerial photographs** to draw maps accurately. A survey is a careful measuring of the earth.

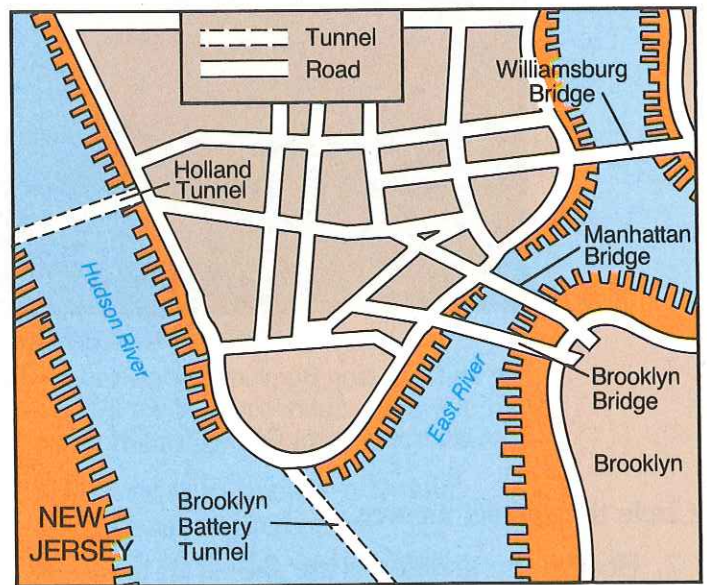
An aerial photograph is a picture taken from an airplane or **satellite**.

The map below shows an aerial photograph and map of part of New York City.



Manhattan Island, New York City

MANHATTAN ISLAND - SOUTH



Complete the following.

1. Circle each bridge you see on the map.
How many bridges did you find? _____

2. Name the two rivers shown on the map.

3. Name one thing that you see on the map,
but do not see on the photograph.

4. Name one thing that you see in the
photograph, but do not see on the map.

5. Would you use a map or photograph to
study the New York skyline?

6. Which one was created by a cartographer,
the map or photograph?

Maps and Globes

Objective: to compare a map and a globe

A **map** is a special kind of drawing of the earth. A map can show the streets of a small city or the cities in a large country.

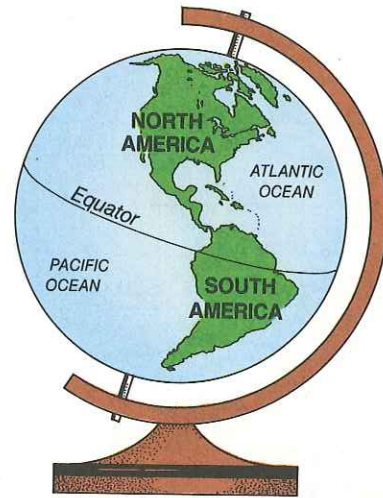
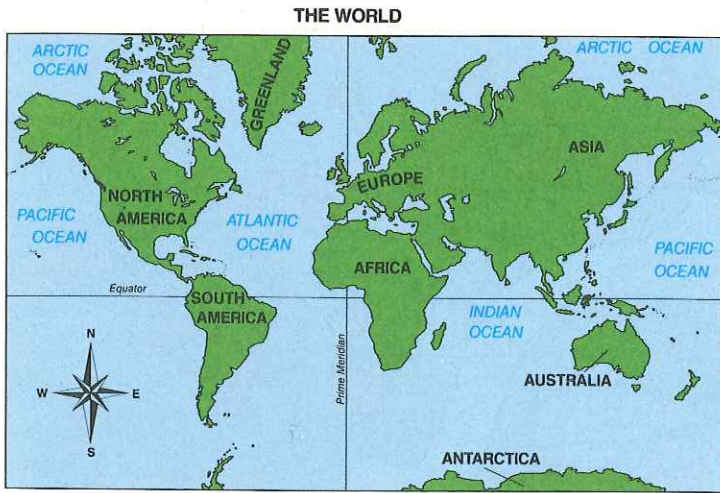
Cartographers try to make their maps as accurate as possible.

Drawing an accurate map of the earth is a challenge. The earth is round like an orange. To make a flat map of the round earth, map makers have to stretch some parts of the earth. Therefore, on some maps the oceans

look larger than they really are. On others, places near the North Pole and the South Pole may look larger than they really are.

The only really accurate map of the earth is a globe. A **globe** is a model of the earth.

Because it is round just as the earth is round, a globe shows what the earth really looks like. People need flat maps as well as globes. Each is useful in a different way. Look carefully at the globe and map below.



Complete the following.

1. Which one would be the best to see the earth easily with one glance?

a. map b. globe

2. Which one shows what the earth looks like from space?

a. map b. globe

3. Which one shows the true size of oceans more accurately?

a. map b. globe

4. Which is the only accurate model of the earth?

a. map b. globe

5. How does the size of the oceans change when they are drawn on a map?

6. What is one way that a globe and map are alike?

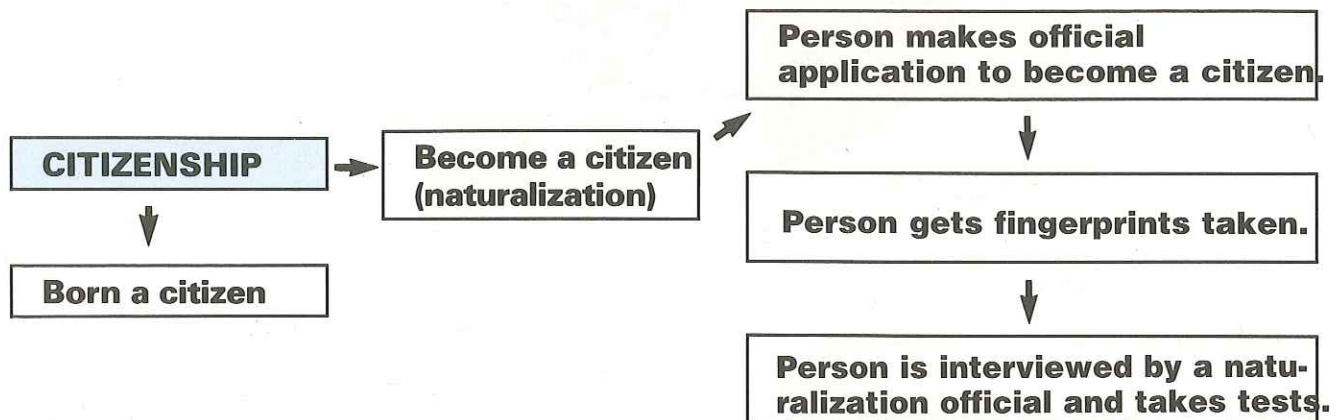
Reading a Chart

Objectives: to find data on a chart
to use a chart to see how different parts work together

A chart is used to show how something is organized or the order of events.

The chart below uses arrows to show how one event leads to another.

HOW TO BECOME A CITIZEN OF THE UNITED STATES



Circle the correct answer.

- What does this chart show?
 - how to get a driver's license
 - how to become a citizen of the United States
 - how to become a citizen of Canada
 - how to vote
- How many ways of becoming a citizen are shown?
 - 4
 - 3
 - 2
 - 1
- If you are not born a citizen, what is the first step in becoming one?
 - taking an oath
 - questions from a judge
 - making an official application
 - report by a witness
- What is the final step in becoming a citizen?
 - taking an oath
 - making an official request
 - questions from a judge
 - report by a witness
- In the process of becoming a citizen, what step comes right before the person is interviewed?
 - voting
 - taking an oath
 - making an official request
 - fingerprinting

A chart can also show how something works. It shows how one thing leads to or causes another thing to happen. The chart below shows the locks of a canal. A canal is a narrow waterway connecting two bodies of water that are not at the same level. The canal locks allow a boat to travel from level to level through the canal.

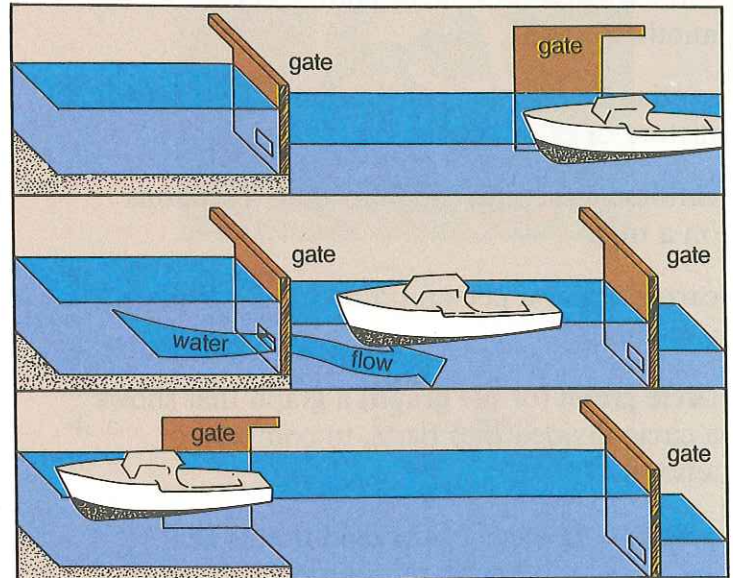
The boat on this chart is going from a body of water at a lower level, to water at a higher level. Read each step on the chart carefully.

HOW LOCKS ON A CANAL WORK

Step 1: A small boat passes through one gate of the locks.

Step 2: The first gate closes and water from a higher level flows in to raise the boat.

Step 3: The second gate is opened. Because the water levels are equal, the boat passes through.



6. Which end of the canal has the lower water level?
 - a. right side
 - b. left side
7. What does the arrow on the chart show?
 - a. air leaving the high water area
 - b. water leaving the high water area
 - c. water leaving the low water area
 - d. air leaving the low water area
8. How many gates will the boat on the chart pass through?
 - a. 4
 - b. 3
 - c. 2
 - d. 1
9. What changes the level of the boat in the canal?

a. air	c. men pulling it
b. an elevator	d. water

10. What does the chart show about passing through the canal?
 - a. Only one gate opens at a time.
 - b. Many boats can pass through the locks at the same time.
 - c. The boat can skip one lock completely, and go on to the next.
 - d. All the gates open at once.
11. Why do you think the canal locks are very narrow?
 - a. so they will fill and empty faster
 - b. so only sailboats can pass through them
 - c. so that they can be built quickly
 - d. so workmen can step across them

Answer Key

Lesson 1

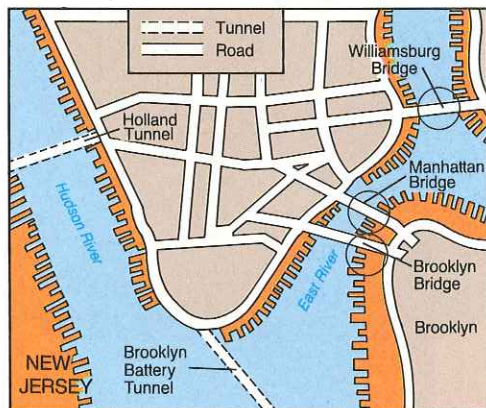
pages 2-3

- | | | |
|------|------|-------|
| 1. b | 5. c | 9. c |
| 2. c | 6. a | 10. c |
| 3. b | 7. b | 11. b |
| 4. c | 8. a | 12. b |

Lesson 2

page 4

MANHATTAN ISLAND - SOUTH



- 3 bridges; See map for answers.
- Hudson River, East River
- highway tunnels, name labels
- buildings, boats or cars, equipment on wharves
- photograph
- map

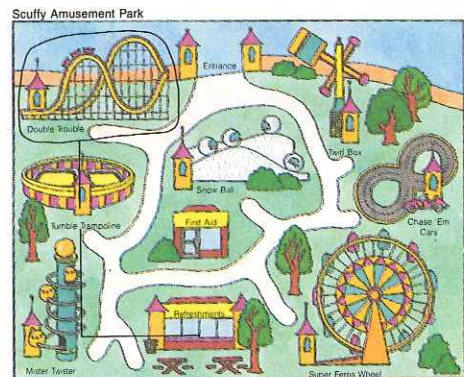
Lesson 3

page 5

- a
- b
- b
- b
- The oceans may be stretched or look larger on a map.
- A globe and a map both show the whole world, or where land and water are.

Lesson 4

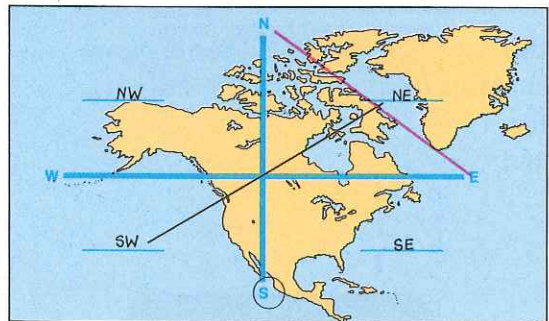
pages 6-7



- | | |
|--|-----------------------------|
| 1. Refreshments | 7. c |
| 2. Mister Twister,
Super Ferris Wheel | 8. a |
| 3. c | 9. c |
| 4. c | 10. d |
| 5. b | 11. See map
for answers. |
| 6. a | 12. c |

Lesson 5

pages 8-9



- | | | |
|-------------------------------|------------------|-------|
| 1.-4. See map
for answers. | 7. SE | 9. b |
| 5. NW | 8. (Clockwise) | 10. d |
| 6. NE | NE, SE,
SW, W | 11. c |

Lesson 6

pages 10-11

- | | | |
|------|------|-------|
| 1. c | 5. a | 9. d |
| 2. d | 6. c | 10. c |
| 3. b | 7. b | |
| 4. a | 8. c | |

ATLAS

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