# Map Reading

Leader

Show relationships between fractions in everyday situations.

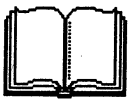
You will need:

- ❑ A road map or any map that includes a scale
- ❑ Ruler
- ❑ A scale drawing (see Materials Page)


Do this:

- Have students find the scale on the map.
- Have students measure the distance between two cities or two states.
- Tell students that one inch on the drawing *represents* a certain number of miles on the map.


It is not good mathematics to say "$\frac{1}{8}$ inch equal one mile," because $\frac{1}{8}$ inch is not equal to a mile.
The measurement "$\frac{1}{8}$ inch" merely *represents* 1 mile.



Immerzeel, George, and Melvin L. Thomas, comp. "Ideas," *Arithmetic Teacher*. Vol. 37, no. 4. December, 1989:27, 31.

Student _____


Do this:

- Use a map of the United States.

What is the scale of the map?

_____ inch represents _____.

- Compute and record the distance from Chicago, Illinois, to the places listed below, using the scale that you found. First measure the number of inches between the cities, then find the distance in miles.

**FROM:**
**Chicago, Illinois**
**TO:**

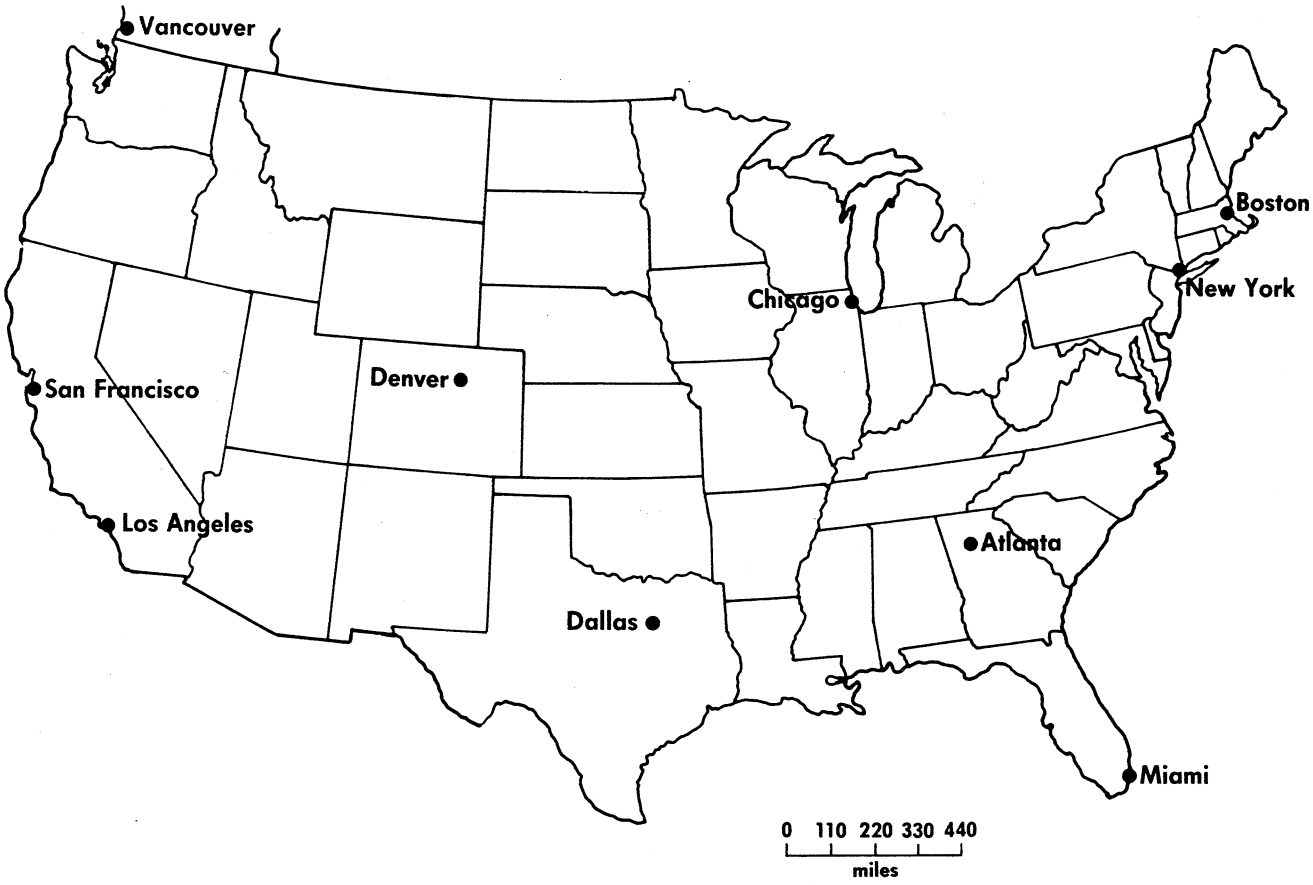
| | |
|---|---|
| **Detroit, Michigan** | _____ |
| **Springfield, Illinois** | _____ |
| **New York, New York** | _____ |
| **Washington, D.C.** | _____ |
| **Seattle, Washington** | _____ |

- Complete the Materials Page for "Can You Find Air Distance."

WHAT I FOUND

# Can You Find Air Distance?

Materials Page




| City A | City B | Measure (in inches) | Estimated distance (in miles) |
|---|---|---|---|
| New York | San Francisco | | |
| Dallas | Boston | | |
| Miami | Los Angeles | | |
| Vancouver | Atlanta | | |
| Chicago | Denver | | |
| New York | Chicago | | |
| Miami | Boston | | |