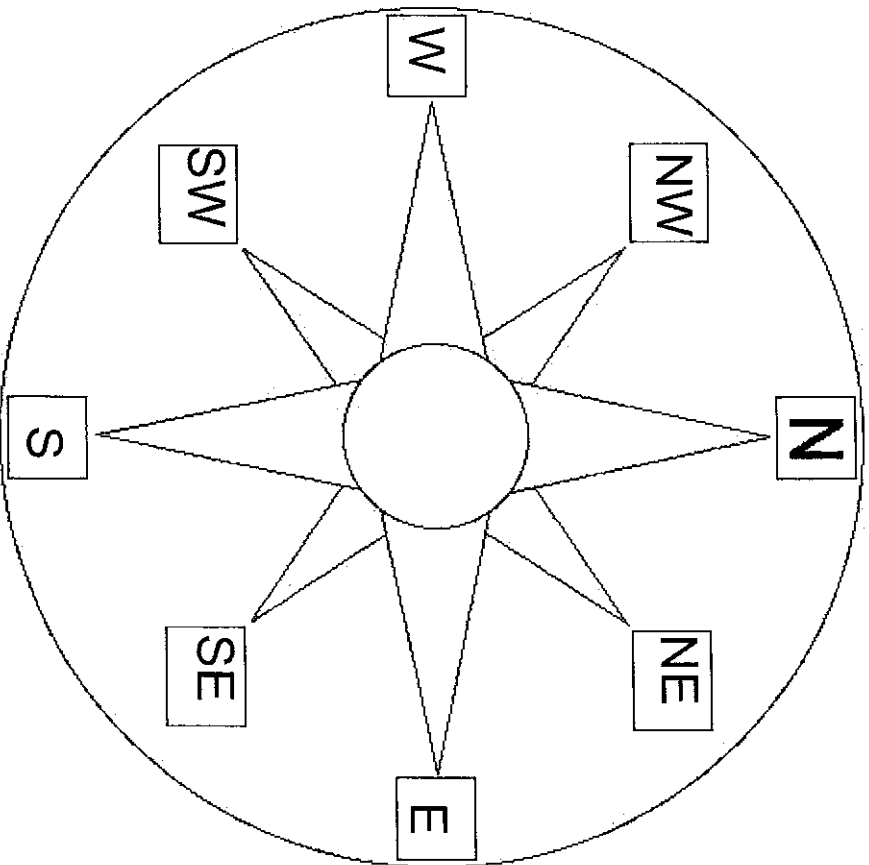


Now, let's examine the parts of most maps. First, let's look at the compass rose. The compass rose indicates cardinal (**black**) and intermediate (**blue**) directions.



Please complete the worksheets. You may work alone or with a partner.

# Which Way Is North?

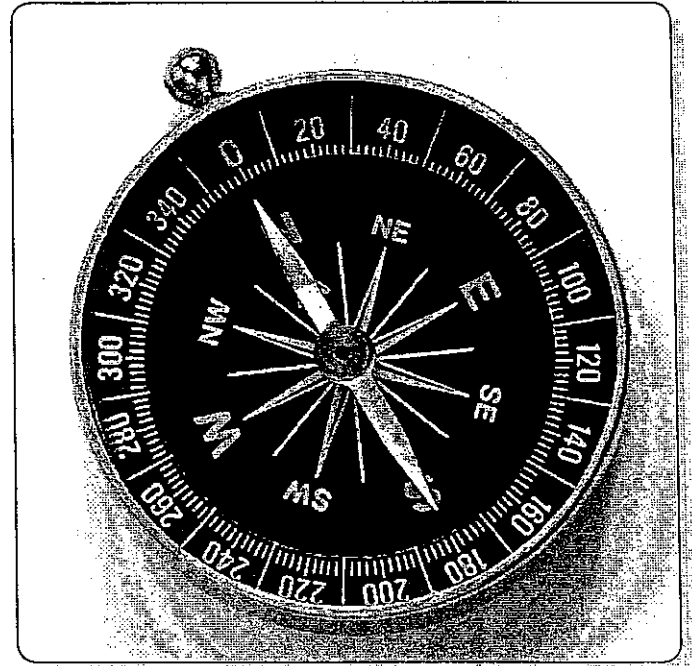
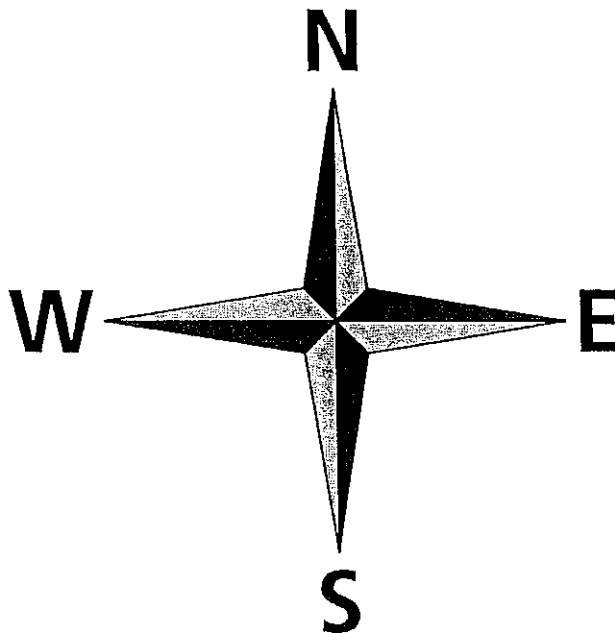
Key Words: compass rose, cardinal directions, intermediate directions

## Cardinal Directions

Imagine that you ask a friend for directions to the movie theater. She tells you to go two blocks to the west. Do you know where to go?

It's important to know your directions. On most maps, a **compass rose** shows the directions north, east, south, and west. These are called the **cardinal directions**. On the compass rose below, N means north, E means east, S means south, and W means west.

Touch the middle of the compass rose below. Then move your finger to the right. Which direction did you move your finger? Move your finger back to the middle and then down. Now which direction is your finger going?

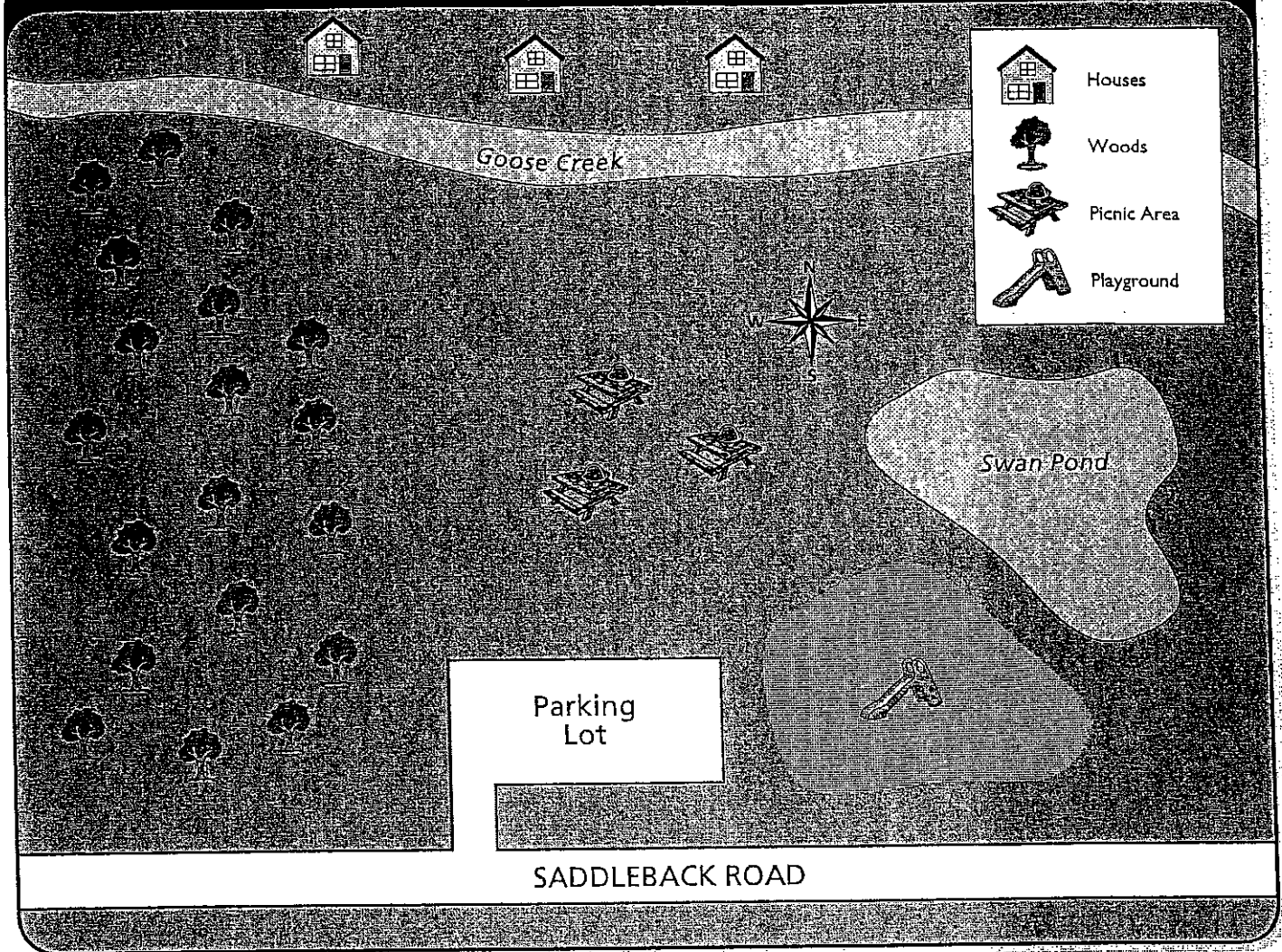


A compass can help you find your way.

The next time you go outside, stand and face north. You can use a compass like the one above to help you find north. The needle on a compass always points north. If you don't have a compass to show you which way is north, ask an adult to help you. As you face north, spread your arms out wide. Your right arm is pointing east.

1. Which way is your left arm pointing?
2. Which direction is behind your back?

# Goose Creek Park



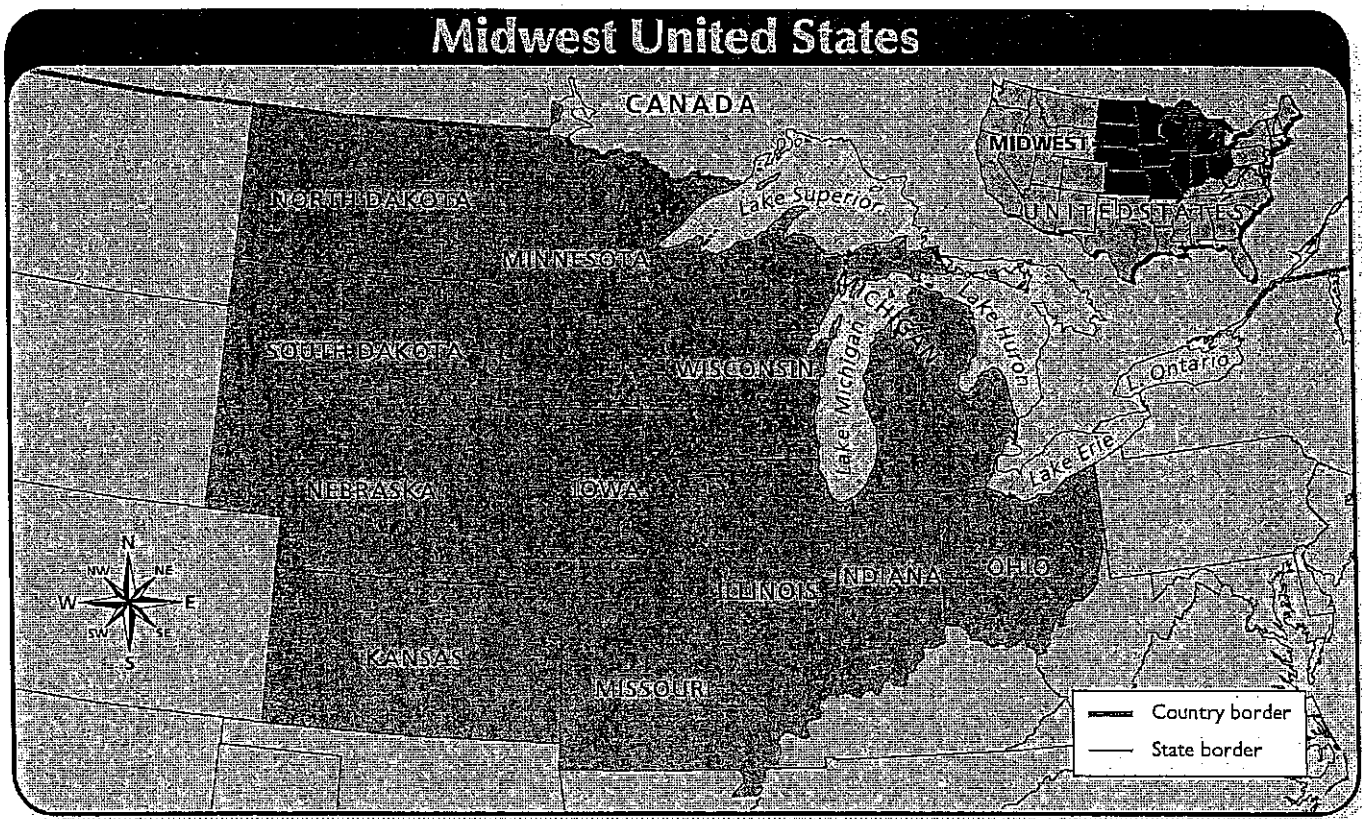
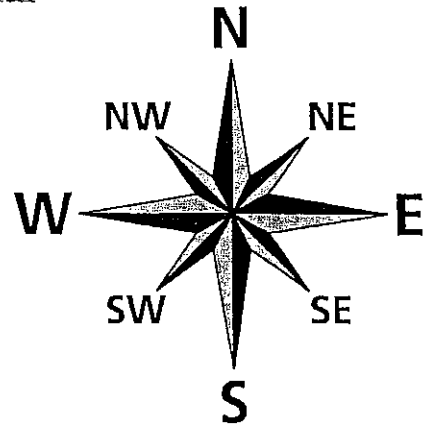
Imagine that you visit Goose Creek Park. You can have all sorts of fun at the park. You can go to the playground. You can have a picnic. You can go for a walk in the woods.

Look at the map of Goose Creek Park. Point to the compass rose. Use the compass rose to help you answer the following questions.

3. Is north at the top of the map or bottom of the map?
4. If you have finished your picnic and want to walk to the woods, which direction should you go?
5. Is Swan Pond east or west of the picnic area?
6. What road will you come to if you walk south from Goose Creek?
7. Is the playground east or west of the parking lot?
8. What is north of Goose Creek?

## Intermediate Directions

Look at this compass rose. It shows the cardinal directions—north, south, east, and west. But it also shows more directions. These are called the **intermediate directions**. They are between the cardinal directions. On the compass rose NE means northeast. Northeast is between the cardinal directions north and east. The other intermediate directions are SE, SW, and NW. SE means southeast, SW means southwest, and NW means northwest. Using your finger, go around the compass rose and point to each of the intermediate directions. Say their names aloud as you point to them.

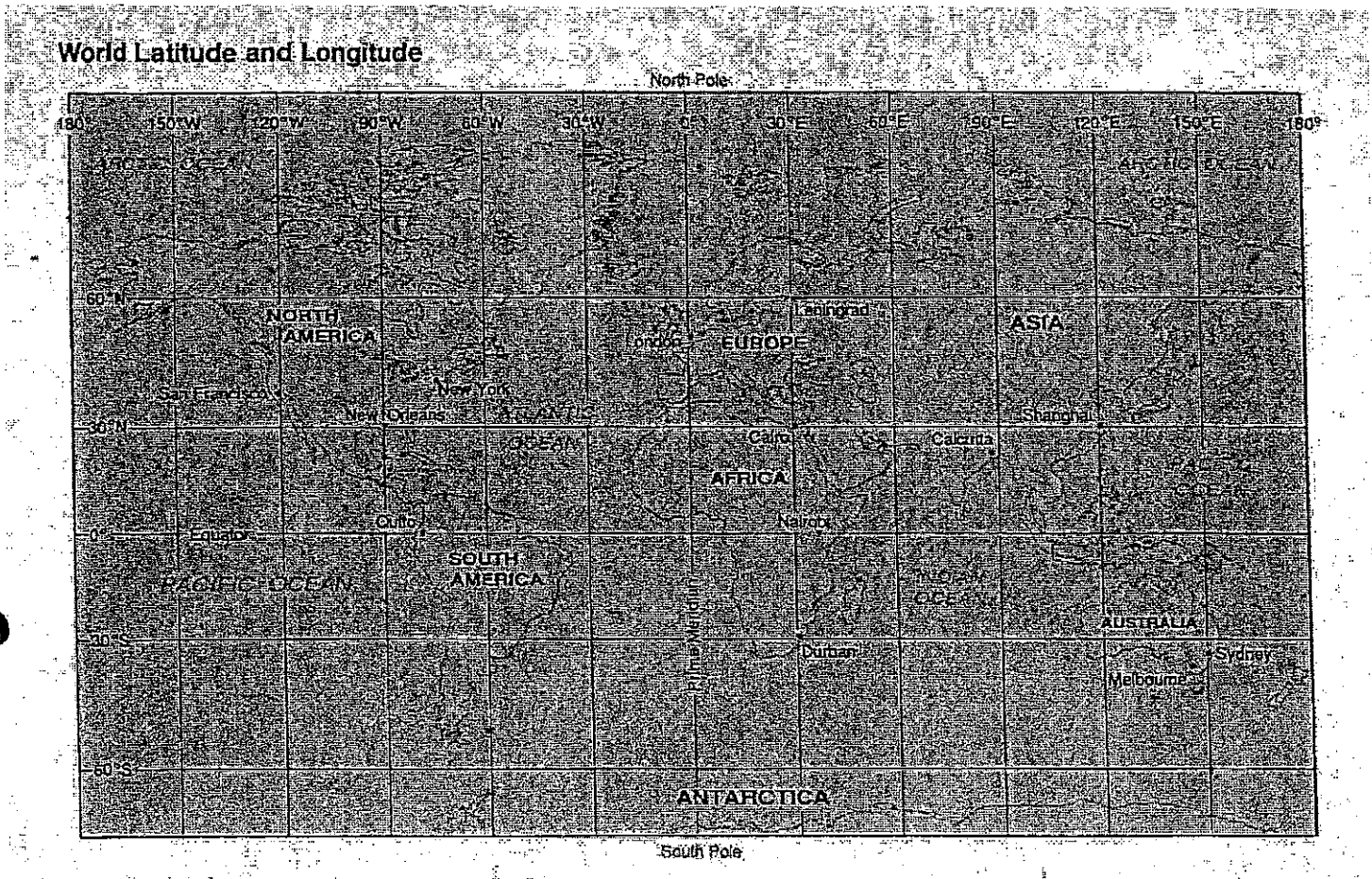


The map above shows part of the United States. Find Ohio and North Dakota on the map. North Dakota is northwest of Ohio. Ohio is southeast of North Dakota.

9. Name two states southeast of North Dakota.
10. Name two states northeast of Kansas.
11. Name two states southwest of Michigan.
12. What direction would you travel to go from Wisconsin to Nebraska?
13. What direction would you travel to go from Indiana to Minnesota?

# Latitude and Longitude Worksheet

Use the map to answer the following questions about latitude and longitude.



1. What ocean does the Prime Meridian cross the equator?  
a. Atlantic                      b. Pacific                      c. Indian                      d. Artic
2. What two continents does the equator cross?  
a. North America and South America                      c. Africa and Europe  
b. Africa and South America                      d. Australia
3. Which one of these continents lies completely in the Southern Hemisphere?  
a. North America                      c. South America  
b. Asia                      d. Australia
4. What ocean lies completely in the Eastern Hemisphere?  
a. Atlantic                      b. Indian                      c. Pacific                      d. Artic
5. What continent lies completely north of the equator and east of the Prime Meridian?  
a. Europe                      b. Asia                      c. Africa                      d. North America

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

6. On what continent would you find the place with a latitude of  $20^{\circ}$  N and a longitude of  $0^{\circ}$ ?
- a. Europe                      b. Asia                      c. Africa                      d. South America

7. On what continent would you find each of the following locations?

- a.  $60^{\circ}$ N,  $100^{\circ}$ W \_\_\_\_\_
- b.  $60^{\circ}$ N,  $100^{\circ}$ E \_\_\_\_\_
- c.  $20^{\circ}$ S,  $60^{\circ}$ W \_\_\_\_\_
- d.  $20^{\circ}$ N,  $20^{\circ}$ E \_\_\_\_\_
- e.  $20^{\circ}$ S,  $140^{\circ}$ E \_\_\_\_\_

8. Identify the city and lies closest to each pair of coordinates.

- a.  $30^{\circ}$ N,  $90^{\circ}$ W \_\_\_\_\_
- b.  $30^{\circ}$ N,  $30^{\circ}$ E \_\_\_\_\_
- c.  $60^{\circ}$ N,  $30^{\circ}$ E \_\_\_\_\_

9. Give the coordinates for each city.

- a. Shanghai, China \_\_\_\_\_
- b. Durban, South Africa \_\_\_\_\_

10. Identify the city with each pair of coordinates.

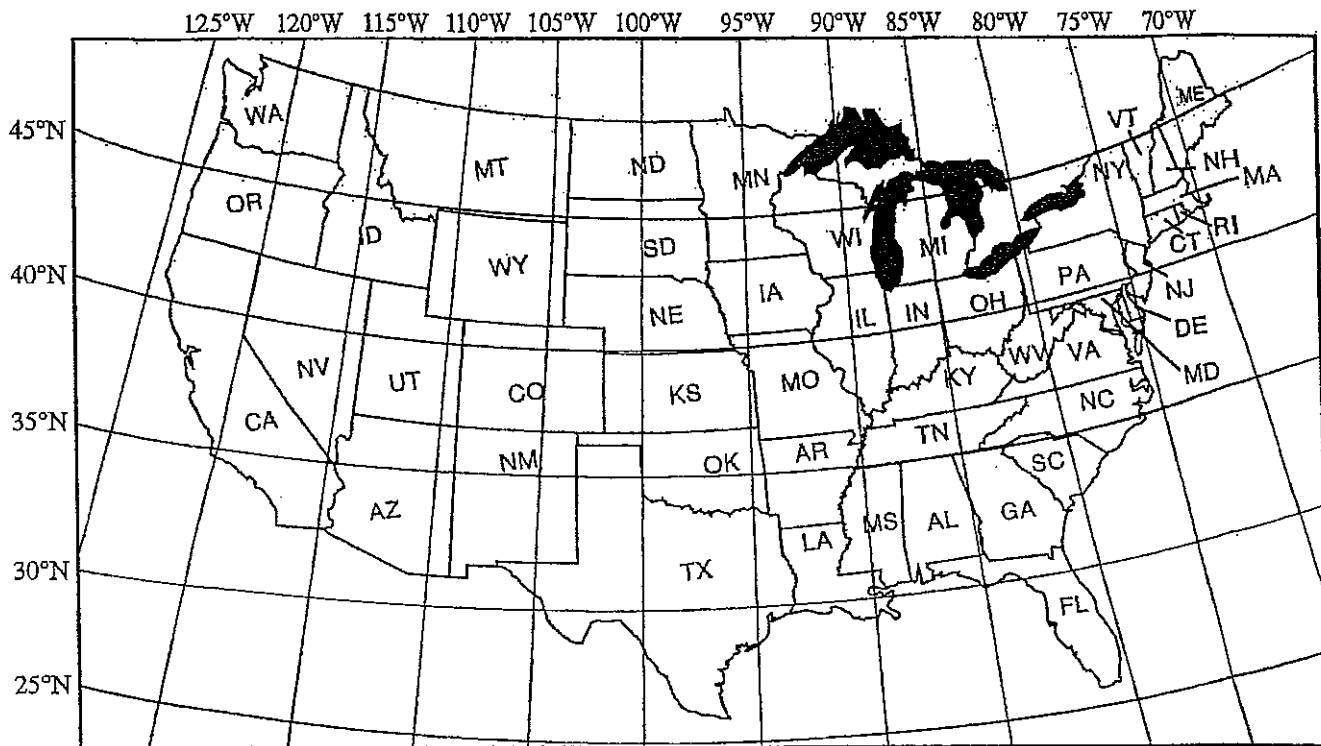
- a.  $0^{\circ}$ ,  $78^{\circ}$ W \_\_\_\_\_
- b.  $51^{\circ}$ N,  $0^{\circ}$  \_\_\_\_\_
- c.  $38^{\circ}$ S,  $145^{\circ}$ E \_\_\_\_\_

11. Estimate the coordinates for each city to the nearest degree. *Use your Mystrom Atlas.*

- a. Calcutta, India \_\_\_\_\_ (p. 86)
- b. Nairobi, Kenya \_\_\_\_\_ (p. 63)
- c. New York, New York \_\_\_\_\_ (p. 40)

Name \_\_\_\_\_

# Latitude & Longitude



Write the name of the state in which each of the following geographic coordinates is located.

- |                      |                       |
|----------------------|-----------------------|
| 1. 45°N, 100°W _____ | 6. 32°N, 93°W _____   |
| 2. 30°N, 95°W _____  | 7. 37°N, 93°W _____   |
| 3. 35°N, 120°W _____ | 8. 43°N, 76°W _____   |
| 4. 40°N, 115°W _____ | 9. 34°N, 107°W _____  |
| 5. 45°N, 95°W _____  | 10. 44°N, 107°W _____ |

Find each of the following states on the map above. Look for the map's lines of latitude and longitude that intersect in that state. Write their coordinates in the blank.

- |                        |                    |
|------------------------|--------------------|
| 11. Utah _____         | 16. Oregon _____   |
| 12. Illinois _____     | 17. Oklahoma _____ |
| 13. Maine _____        | 18. Arizona _____  |
| 14. Pennsylvania _____ | 19. Idaho _____    |
| 15. Wisconsin _____    | 20. Colorado _____ |

Like most non-fiction reference books, atlases have a **glossary**. Please turn to ?page 107 or 108 to your atlas's glossary. What do you think is the purpose of a glossary?

To me, a glossary is \_\_\_\_\_

To me a glossary is...





Name \_\_\_\_\_

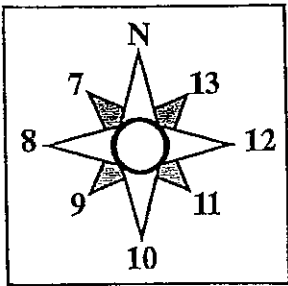
# Parts of a Map

Choose a word from the box to match each description. Write the word in the blank.

**title**      **compass rose**      **map key**      **map grid**      **map scale**

- \_\_\_\_\_ explains the symbols used on a map
- \_\_\_\_\_ can be used to tell how far it is from one location to another
- \_\_\_\_\_ briefly identifies what a map shows
- \_\_\_\_\_ indicates which way is north, south, east, and west on a map
- \_\_\_\_\_ is helpful in pinpointing a city's exact location on Earth's surface
- \_\_\_\_\_ explains the colors used on some maps

Look at the compass rose then fill in the blanks with the correct directions.



- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
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- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Use the scale on the map below to identify the approximate distance (in miles) between the cities.

- Portland, Maine  
Wheeling, West Virginia  
\_\_\_\_\_ miles
- Providence, Rhode Island  
Canton, Ohio  
\_\_\_\_\_ miles
- Buffalo, New York  
New Haven, Connecticut  
\_\_\_\_\_ miles
- New Haven, Connecticut  
Providence, Rhode Island  
\_\_\_\_\_ miles
- Lynchburg, Virginia  
Trenton, New Jersey  
\_\_\_\_\_ miles
- Boston, Massachusetts  
Portland, Maine  
\_\_\_\_\_ miles



