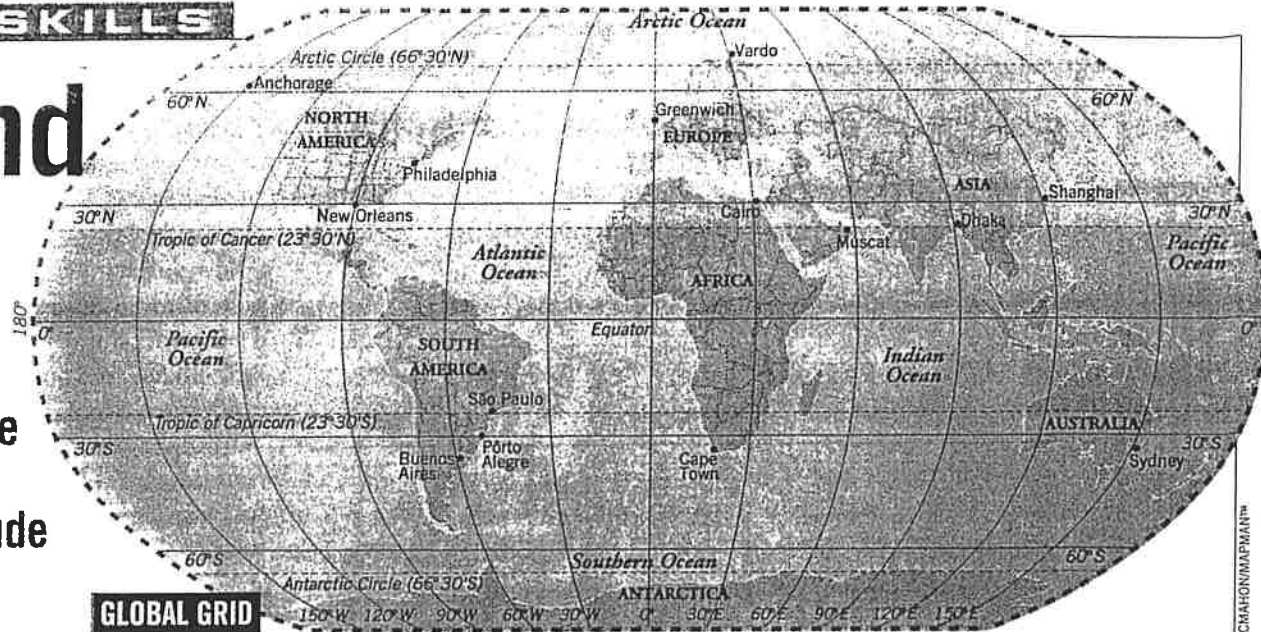


Find It!

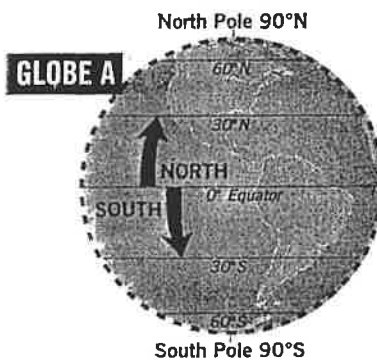
How to Use Latitude and Longitude



Can you find your exact location on a world map? Street numbers and ZIP codes won't help. Map-makers put imaginary lines on maps to find places. These lines are called **latitude** and **longitude**. Here's how they work:

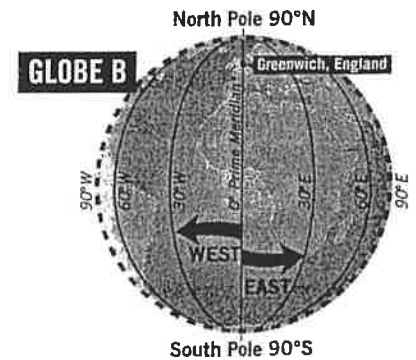
Latitude: Lines of latitude measure distance north and south of the **equator**, an imaginary line that circles the globe exactly halfway between the North and South poles (*see globe A*). The equator is at 0° latitude. As you travel north (N) or south (S) of the equator, latitude increases—up to 90°N at the North Pole and 90°S at the South Pole.

Longitude: Lines of longitude



measure distance east and west of the **prime meridian**, an imaginary line that passes through Greenwich, England (*see globe B*). The prime meridian is at 0° longitude. As you travel east (E) or west (W) of Greenwich, longitude increases—up to the 180° meridian, which is located in the Pacific Ocean.

Global Grid: When latitude and longitude lines are combined on a



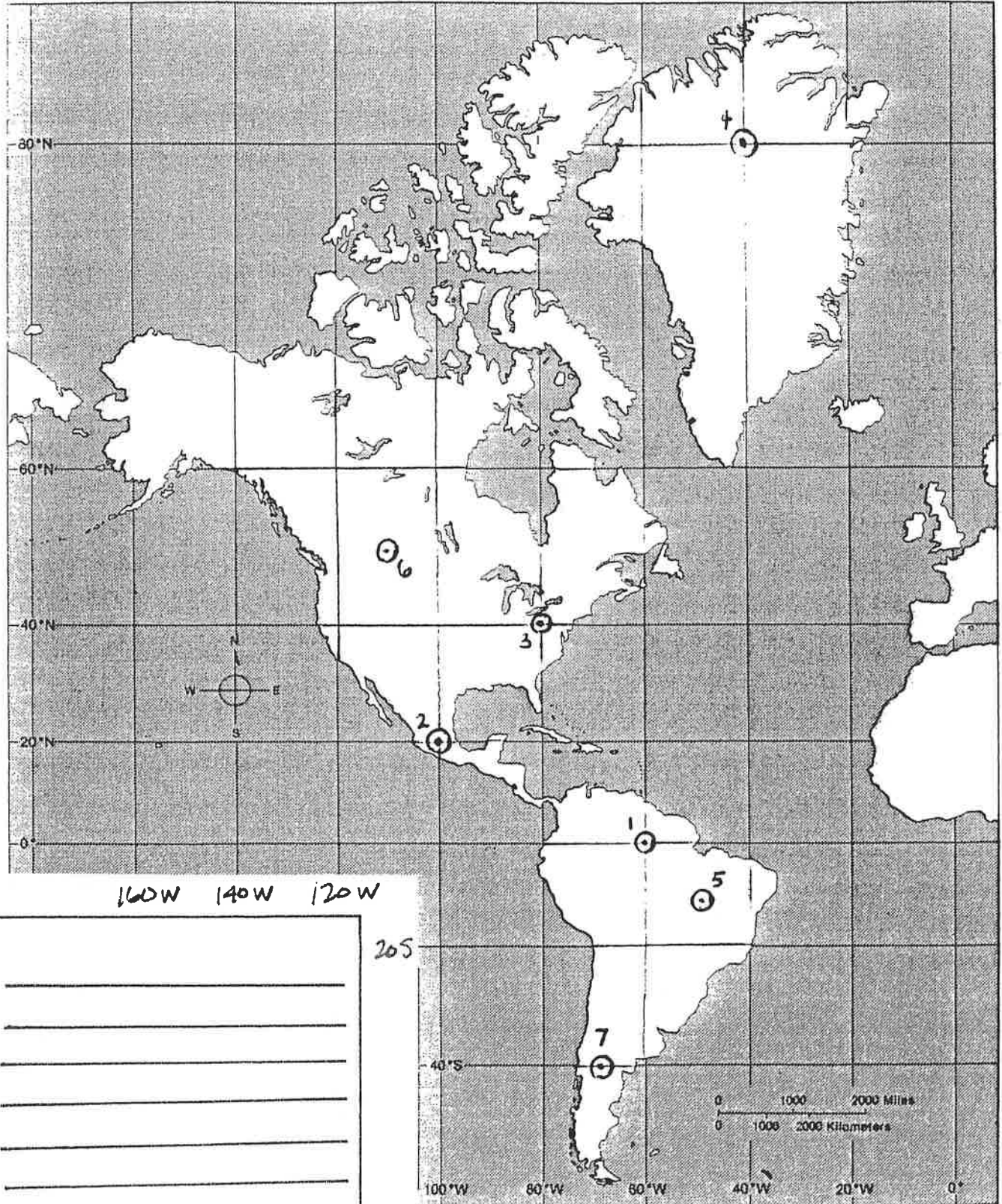
map, they form a grid (*see global grid*). Any spot on Earth can be located by its latitude and longitude. For example, New Orleans, Louisiana, is located at almost exactly 30°N, 90°W. (Latitude is always given first, then longitude.) Both latitude and longitude are measured in degrees.

Study the map and globes, then answer the questions below.

QUESTIONS

- Latitude measures distance north and south of what named line? _____
- Longitude measures distance east and west of what named line? _____
- Pôrto Alegre, Brazil, is located on what line of latitude? _____
- Anchorage, Alaska, is located on what line of longitude? _____
- A ship located at 30°S, 120°W, would be in which ocean? _____
- If you were located at 30°N, 90°E, on what continent would you be? _____
- São Paulo, Brazil, is near what named line of longitude? _____
- What city is located near 30°N, 30°E? _____
- What city is located near 30°N, 120°E? _____
- Other than Antarctica, which continent is located closest to the South Pole? _____

72 Western Hemisphere



- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____