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1

Geography

★ Listen

Listen and repeat.

Geography is the study of Earth's surface.

Earth has four hemispheres. A hemisphere means "half of a sphere."

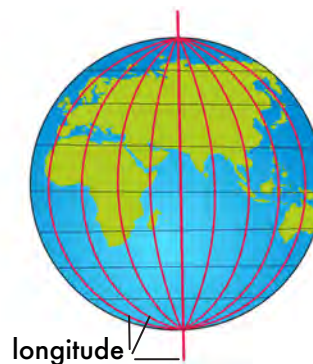
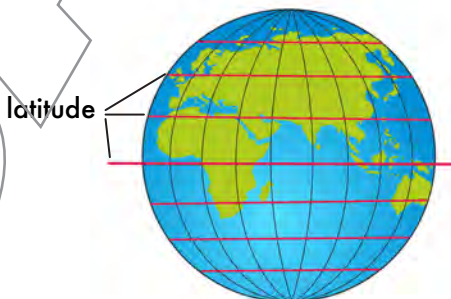
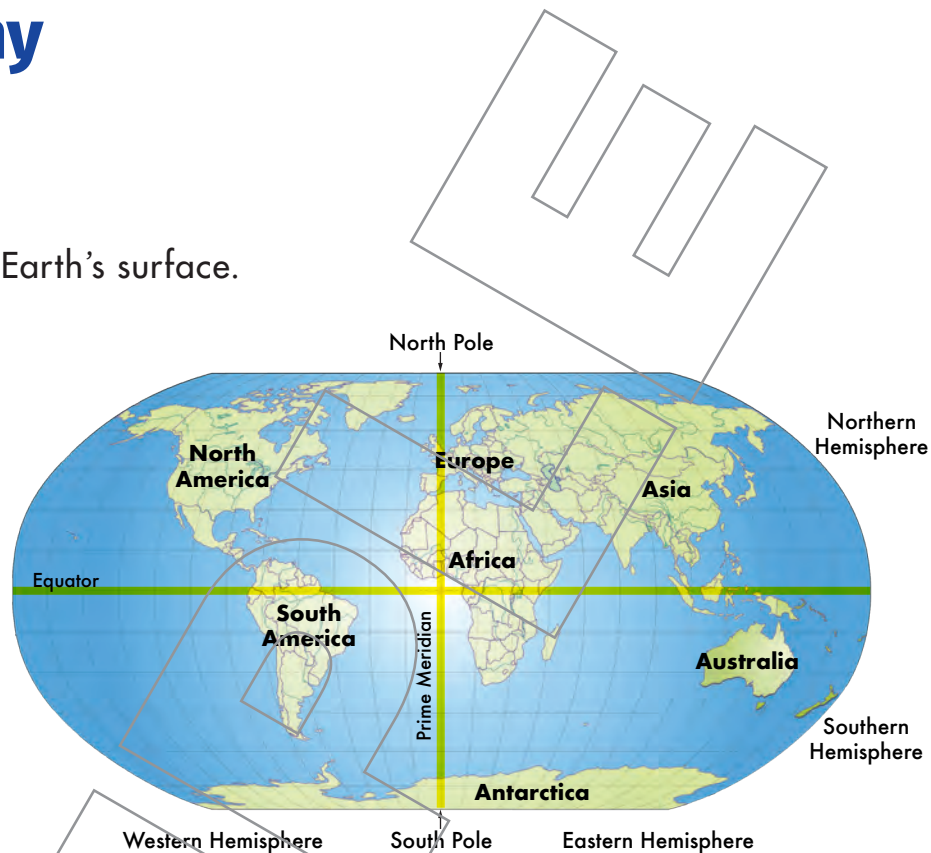
The equator divides Earth into the Northern Hemisphere and the Southern Hemisphere.

The prime meridian divides Earth into the Eastern Hemisphere and the Western Hemisphere.

The North Pole is at the top of Earth. The South Pole is at the bottom of Earth.

There are seven continents on Earth. Continents are large masses of land.

Look at a map or a globe. There are lines that run across. These are lines of latitude. There are also lines that run up and down. These are lines of longitude. Latitude and longitude help people find exact places on Earth.



Listen. Check the correct choice.

- | | |
|---|---|
| 1 <input type="checkbox"/> longitude | <input type="checkbox"/> latitude |
| 2 <input type="checkbox"/> globe | <input type="checkbox"/> continent |
| 3 <input type="checkbox"/> North Pole | <input type="checkbox"/> South Pole |
| 4 <input type="checkbox"/> equator | <input type="checkbox"/> prime meridian |
| 5 <input type="checkbox"/> hemisphere | <input type="checkbox"/> globe |
| 6 <input type="checkbox"/> prime meridian | <input type="checkbox"/> latitude |



★ Speak

Talk with a partner.

- 1 How do lines of latitude and longitude help travelers?

Lines of latitude and longitude help by _____.

- 2 When might you need to use lines of latitude and longitude?

I might use lines of latitude and longitude to _____.

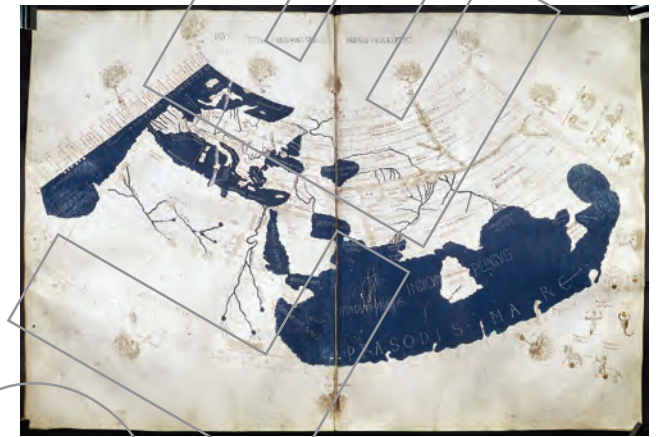
- 3 What do you think life is like at the South Pole?

I think life at the South Pole _____.

★ Read

Read the first part of the passage. Then answer the questions.

1 Find a map or a globe. Look closely. Do you see a grid of lines? Some run up and down. Others go from side to side. These lines are called latitude and longitude. Lines of latitude go from side to side, or east to west. Lines of longitude run up and down, or north to south. They are imaginary. They are not really on the surface of our planet like the oceans and continents. But they are very useful. They give every spot in the world its own address.



2 These lines are an important part of geography. Geography is the study of Earth's surface. Around 100 BC, a Greek man named Ptolemy made a grid of lines. He started with an idea that had been around a long time. He divided the distance around Earth into 360 degrees. But Ptolemy thought our planet was much smaller than it really is. So his system was not accurate. Over the centuries, people refined Ptolemy's system. Now it is used around the world.

- 1 Circle the name of the man who first made a grid of lines.
- 2 Underline the word that means "the study of Earth's surface."
- 3 Because Ptolemy believed Earth was much smaller than it is, _____.
 - A his system was not useful
 - B his system was not accurate
 - C his system was quickly forgotten
 - D the equator was in the wrong place

★ Speak

Talk with a partner.

What does it mean to refine something?

To refine something means _____.

Read the second part of the passage. Then answer the questions.

3 Some lines of latitude and longitude are especially important. One of them is the equator. That is the imaginary line around the middle of our planet. The equator is the most important line of latitude. It is the one that all others are measured by. Lines of latitude are also called parallels. They are measured in degrees north or south of the equator. The equator is at 0 degrees latitude.



4 Lines of longitude are also called meridians. Latitude is marked from the equator. But where does longitude start? There are no natural points to begin measuring it. So everyone had to agree on one. They chose Greenwich, England. The 0-degree line runs north to south through there. Longitude is measured east or west of this prime meridian.

- 1 **Circle** the name of the most important line of latitude.
- 2 **Highlight** another name for lines of longitude.
- 3 The prime meridian is an imaginary line that runs north to south through which place?
 - A China
 - B Greece
 - C England
 - D Washington, DC

★ Speak

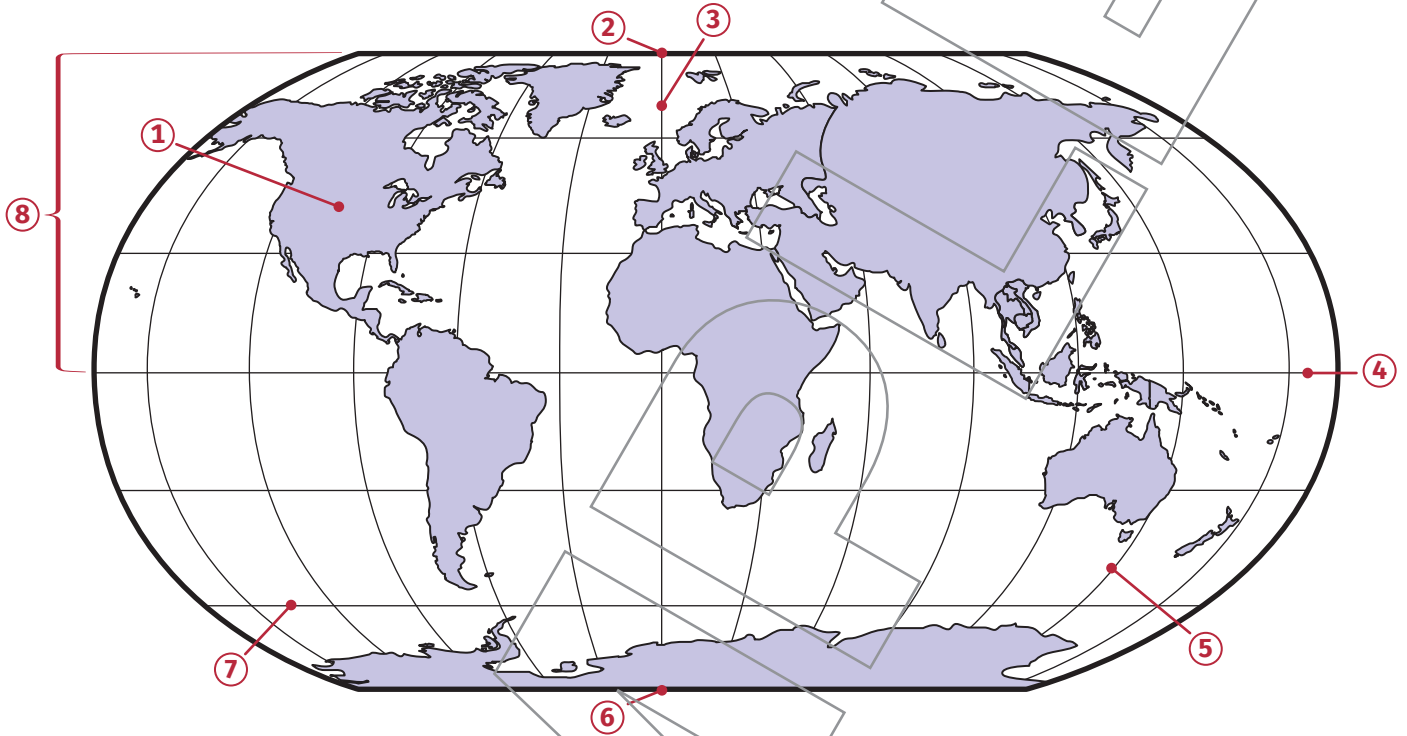
Talk with a partner.

Why do lines of latitude and longitude have to start someplace?

Lines of latitude and longitude have to start someplace because _____.

★ Write

Look at the map. Write the word that goes with each number on the map.



1 _____
2 _____
3 _____
4 _____
5 _____
6 _____
7 _____
8 _____

- continent
- equator
- latitude
- longitude
- Northern Hemisphere
- North Pole
- prime meridian
- South Pole



GRAMMAR — Types of Sentences

There are four types of sentences.

- 1 A **statement** tells about something. It ends with a period (.).
It is always cold at the North Pole.
- 2 A **question** asks about something. It ends with a question mark (?).
Would you like to go to the North Pole?
- 3 A **command** tells someone to do something. It usually ends with a period(.).
Tell us about the continent of Africa.
- 4 An **exclamation** shows surprise or strong feeling. It ends with an exclamation point (!).
That is really interesting!

Read each sentence. On the first line, write the number from the sentence above that tells what type of sentence it is. Then put the correct end mark on the line at the end of the sentence.

- 1 ___ Which continent is the largest__
- 2 ___ Most of South America is in the Southern Hemisphere__
- 3 ___ What a huge snake__
- 4 ___ Use latitude and longitude to find the lake__
- 5 ___ Watch out__
- 6 ___ Have you ever found France on a globe__
- 7 ___ The prime meridian is at 0 degrees longitude__
- 8 ___ Some people consider Europe and Asia to be one continent__
- 9 ___ Draw a map of your neighborhood__
- 10 ___ Where is the hottest place on Earth__