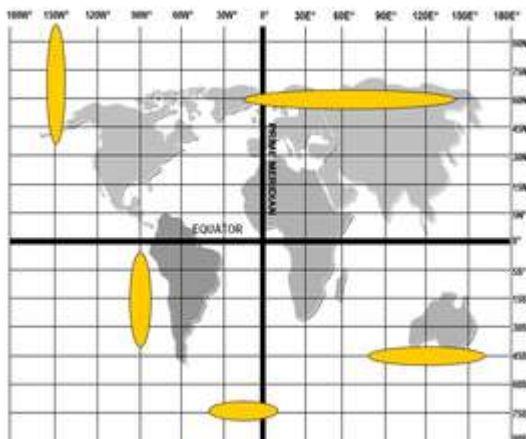
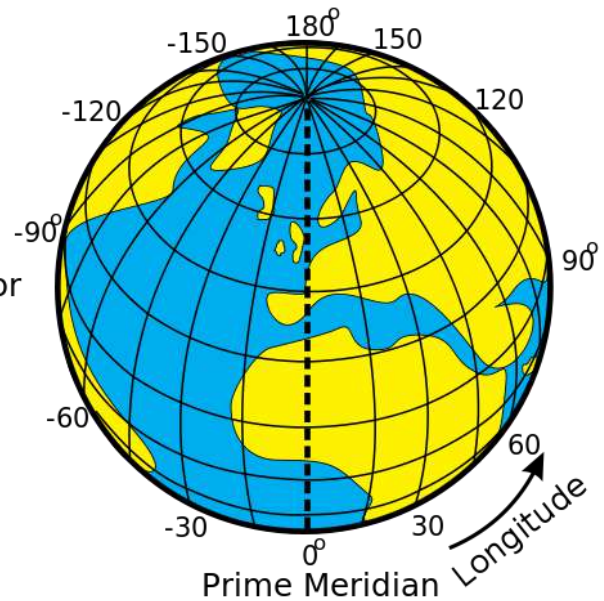
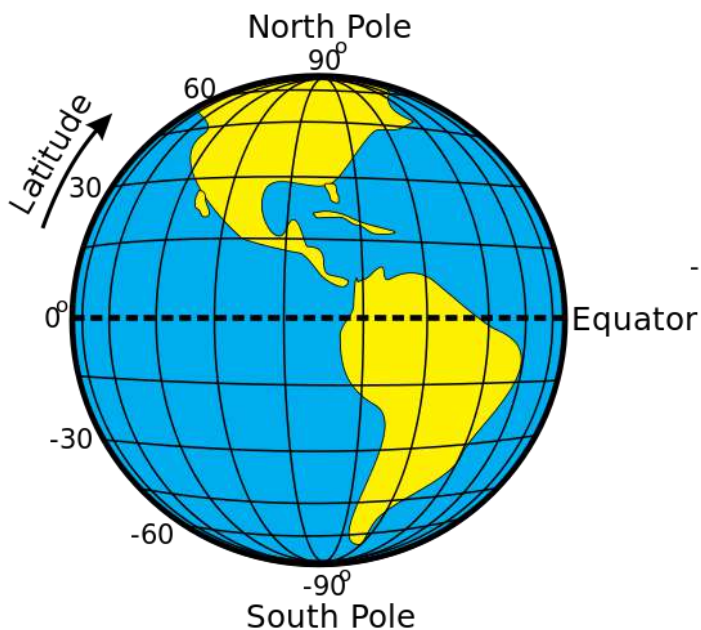


Latitude and Longitude

Reading – Geographical coordinates

The Earth is like a ball that is a little compressed at the top and at the bottom. It has two poles, the **North Pole** and the **South Pole**.



The Earth is crossed by a system of imaginary lines invented by geographers to find the location of a place on it. They are the **Lines of Latitude** and the **Lines of Longitude**.

We can easily find every point on the Earth by using Latitude and Longitude, the **geographical coordinates**.

It is like playing a game of Battleship!

In your dictionary, find the meanings of the underlined expressions.

1.
2.
3.

Is there any other word that you don't know?

Reading – Lines of Latitude

The lines of latitude are also called **Parallels**. They are equal distance apart and they never unite.

The most important line of latitude is the **Equator**. The Equator divides the Earth into two hemispheres, the **Northern Hemisphere** and the **Southern Hemisphere**.

The Arctic Circle, the Tropic of Cancer, the Tropic of Capricorn, the Equator and the Antarctic Circle are the five major line of longitude.

There are 180 lines of latitude (90 from the Equator to the North Pole and 90 from the Equator to the South Pole). The Latitude is the distance from the Equator. We measure the Latitude in degrees, north and south.



FACTS ABOUT LINES OF LATITUDE

- Are known as parallels.
- Run in an east-west direction.
- Measure distance north or south from the Equator.
- Are parallel to one another and never meet.
- Cross the prime meridian at right angles.
- Lie in planes that cross the Earth's axis at right angles.
- Get shorter toward the poles, with only the Equator, the longest, a great circle.

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In your dictionary, find the meanings of the underlined expressions.

1.
2.
3.

Is there any other word that you don't know?

EXERCISE 1

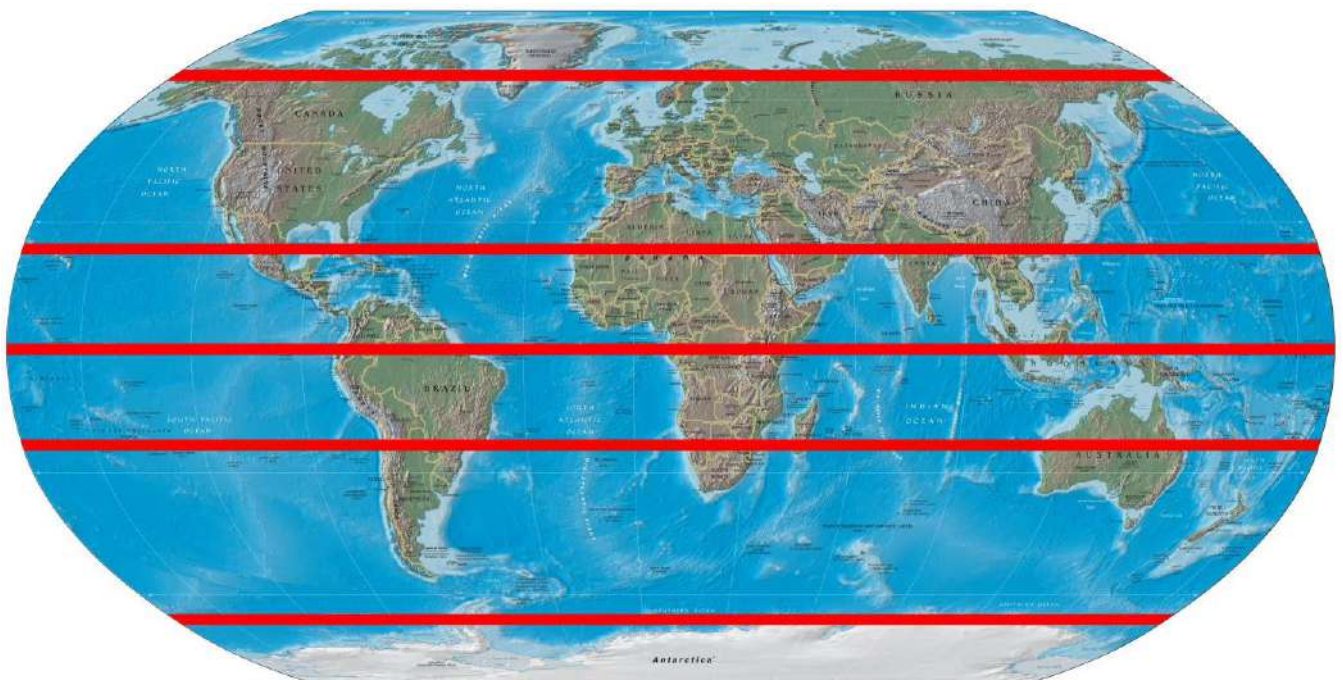
Answer the following questions by choosing the correct option.

1. The Earth has got...
☐ two poles ☐ three poles
2. Latitude and Longitude are...
☐ two hemispheres ☐ imaginary lines
3. The Equator is...
☐ a parallel ☐ a meridian
4. The Equator divides Earth into...
☐ two hemispheres ☐ four hemispheres
5. The Tropic of Cancer is a...
☐ parallel ☐ meridian

EXERCISE 2

Label the planisphere with the following words.

EQUATOR – SOUTH POLE – TROPIC OF CANCER – ARCTIC CIRCLE – TROPIC OF CAPRICORN – NORTH POLE – ANTARCTIC CIRCLE



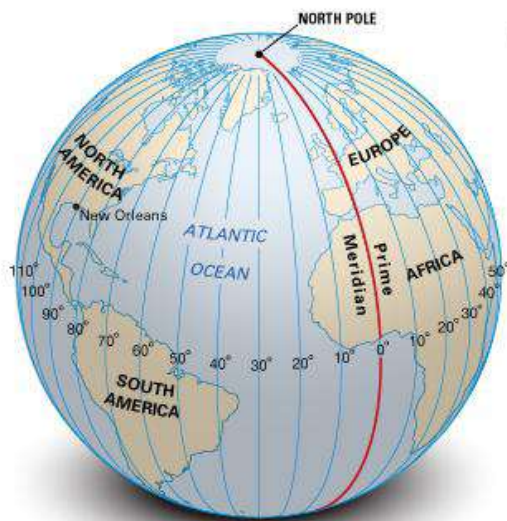
Reading – Lines of Longitude



The **lines of Longitude** are imaginary lines. They are perpendicular to the lines of latitude. The lines of Longitude unite the North Pole and the South Pole.

There are 360 lines of longitude and they are all the same length. The primary line of longitude passes through the Royal Observatory in **Greenwich**, London.

Longitude is the distance between a place and the **Prime Meridian** of Greenwich. We measure the longitude in degrees. It is indicated as “**degrees east**” or “**degrees west**”.



FACTS ABOUT LINES OF LONGITUDE

- Are known as meridians.
- Run in a north-south direction.
- Measure distance east or west of the prime meridian.
- Are farthest apart at the Equator and meet at the poles.
- Cross the Equator at right angles.
- Lie in planes that pass through the Earth's axis.
- Are equal in length.
- Are halves of great circles.

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In your dictionary, find the meanings of the underlined expressions.

1.
2.
3.

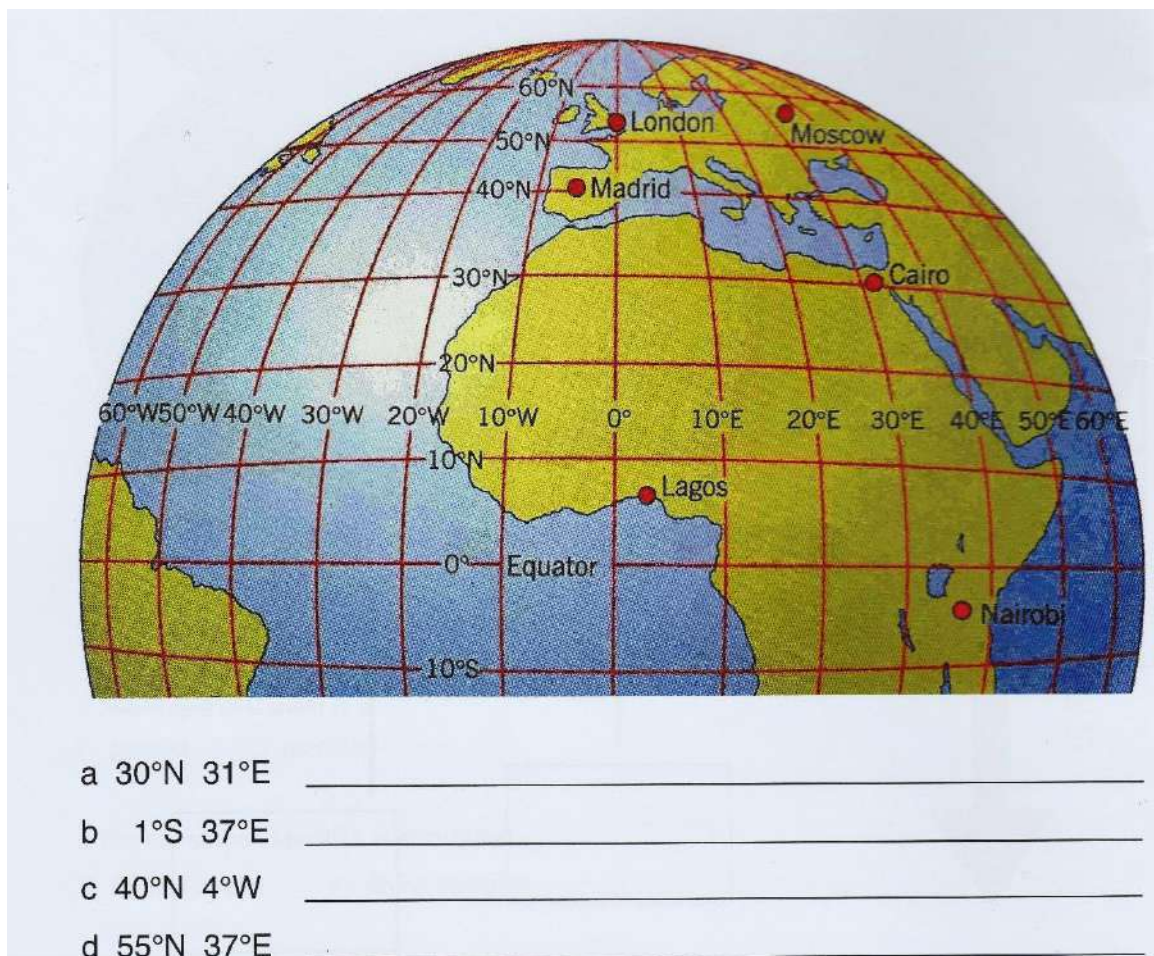
Is there any other word that you don't know?

EXERCISE 1

1. The Prime Meridian passes through....
☐ Paris ☐ London
2. The Greenwich Meridian is also called
☐ Prime Parallel ☐ Prime Meridian
3. We measure the longitude
☐ In kilometers ☐ In degrees

EXERCISE 2

Look at the globe and find the cities by reading their coordinates.



EXERCISE 3

Using your atlas, find the approximate coordinates of these European capital cities.

	Town/city	Coordinates
1	Rome	
2	London	
3	Paris	
4	Berlin	
5	Madrid	
6	Helsinki	
7	Reykjavik	

EXERCISE 4

Write the definitions of LONGITUDE and of LATITUDE.

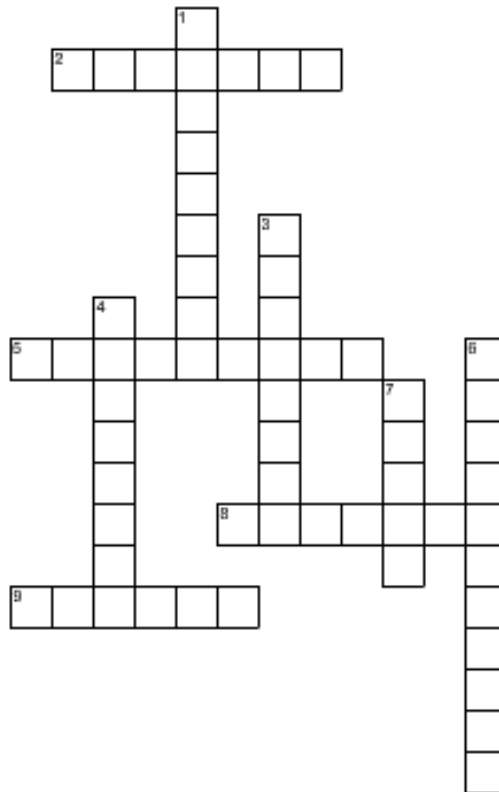
Longitude is
.....
.....

Latitude is
.....
.....

EXERCISE 4

Complete the Crossword Puzzle.

Latitude and Longitude



ACROSS

2. The imaginary line around the Earth that divides it into equal north and south parts.
5. The Prime Meridian passes through...
8. Latitude and Longitude are measured in...
9. The Tropic to north of the Equator.

DOWN

1. The Tropic to north of the Equator.
3. The Arctic Circle is a line of...
4. An imaginary line that unites the North Pole and the South Pole.
6. The Equator divides the Earth into two...
7. The Earth has got two...

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Website

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