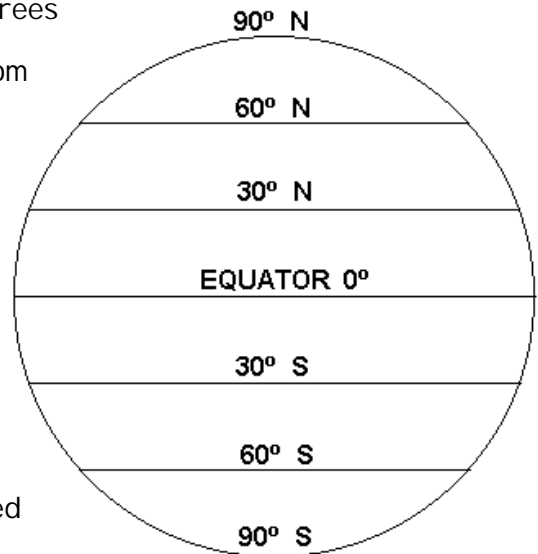


## What is Latitude?

Latitude is defined as a measurement of distance in degrees north or south of the equator. The word latitude is derived from the Latin, "latus", meaning "wide."

There are ninety degrees of latitude from the equator to each of the poles. Latitude lines are pictured on the globe to the right. Latitude lines are parallel, that is they are the same distance apart. In fact, they are sometimes called parallels.



The equator is 0°. It divides the earth in half. It is called the equator all the way around the earth. You can image that the equator is like a belt on a skirt or a pair of jeans.

Positions on latitude lines above the equator are called "north" and are in the northern hemisphere. They are abbreviated N. St. John's, Newfoundland, for example, is near 49° N. Positions on latitude lines below the equator are called "south" and is abbreviated S. They indicate the position is in the southern hemisphere.

## Complete the Following

- Lines of latitude are \_\_\_\_\_ to the equator.
- There are \_\_\_\_\_ degrees of latitude north and south of the equator.
- The equator is \_\_\_\_\_ degrees.
- Another name for latitude lines is \_\_\_\_\_ .
- The equator divides the earth into \_\_\_\_\_ equal parts.

Write a definition of latitude.

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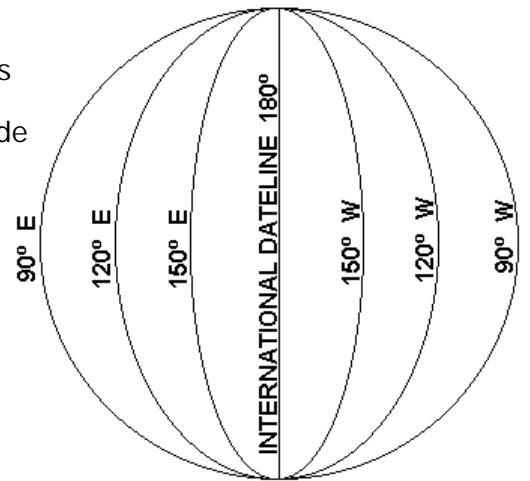
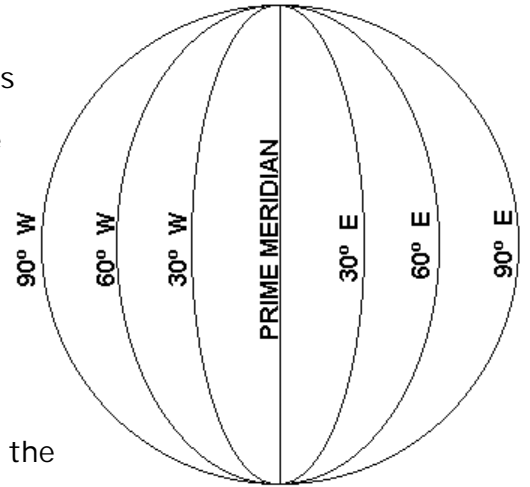
## What is Longitude?

Longitude is defined as measurement of distance in degrees east or west of the prime meridian. The word is derived from the Latin, "longus", meaning "length". The prime meridian divides the earth in half too. It is also  $0^{\circ}$  and passes through the community of Greenwich, England.

The prime meridian as do all other lines of longitude, pass through the north and south pole. This is shown in the diagram to the right. These lines are not parallel. They make the earth look like a peeled orange.

Because the earth is round like a ball, not all longitude lines are visible. There are 180 other lines of longitude on the other side of the globe. But on the opposite side, the prime meridian is  $180^{\circ}$  and is called the International Date line.

Longitude lines to the left of the prime meridian give locations west, in the western hemisphere. Longitude lines to the right of the prime meridian give locations east, in the eastern hemisphere. St. John's, Newfoundland, for example is near the  $52^{\circ}$  W line of longitude.



## Complete the Following

- Longitude lines connect the \_\_\_\_\_ pole with the \_\_\_\_\_ pole.
- The line of  $0^{\circ}$  longitude is called the \_\_\_\_\_.
- Longitude lines give directions \_\_\_\_\_ and \_\_\_\_\_ of the prime meridian.
- There are \_\_\_\_\_ degrees of longitude each side of the prime meridian.
- Longitude lines are not \_\_\_\_\_ like latitude lines.

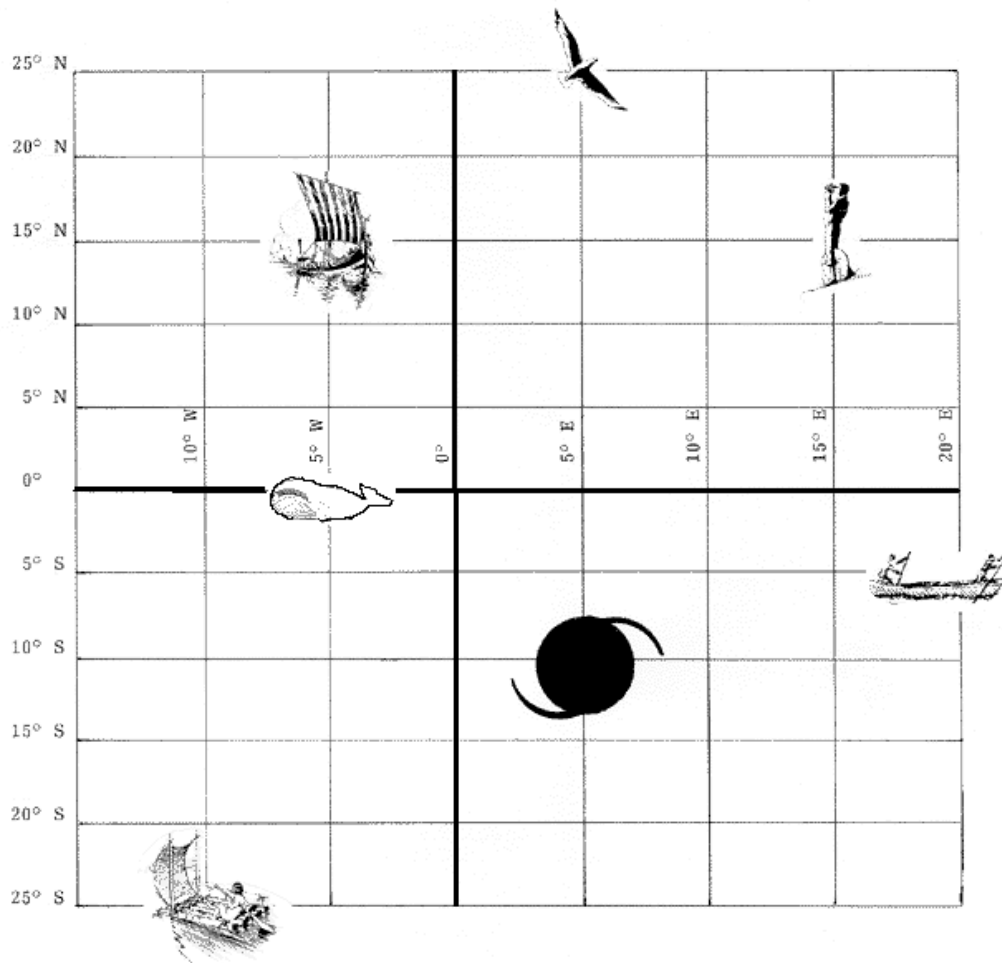
Write a definition of longitude.

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## Using Latitude and Longitude

To find your exact location on a map, you need a latitude and a longitude line. This meets, you find your location by finding which latitude line and which longitude line meet to create a point. When writing locations, the latitude is given first. St. John's, Newfoundland then, has a location of  $49^{\circ}$  North and  $52^{\circ}$  West. This is usually written in a short form as  $49^{\circ}$  N  $52^{\circ}$  W.



Give the latitude and longitude of the shapes positioned on the grid below.

Viking Ship

Hurricane

Tourist

Rafter

Whale

Canoeists