What is Latitude?

- Latitude is defined as a measurement of distance in degrees north and south of the equator.
- The word latitude is derived from the Latin word, "latus", meaning "wide."
- There are 90 degrees of latitude from the equator to each of the poles, north and south.
- Latitude lines are parallel, that is they are the same distance apart.
- These lines are sometimes referred to as parallels.
- The equator is the longest of all lines of latitude.
- It divides the earth in half and is measured as 0° (Zero degrees).

North and South Latitudes

- Positions on latitude lines above the equator are called “north” and are in the northern hemisphere.
- Positions on latitude lines below the equator are called “south” and are in the southern hemisphere.

Quiz!!

- Lines of Latitude are _________ Parallel _________ to the equator.
- There are _________ 90 _________ degrees of latitude north and south of the equator.
- The equator is _________ 0 _________ degrees.
- The equator divides the Earth into _________ 2 _________ equal parts.

What is Longitude?

- Longitude is defined as measurement of distance in degrees east or west of the prime meridian.
- The word longitude is derived from the Latin word, “longus”, meaning “length.”
• The Prime Meridian, as do all other lines of longitude, pass through the north and south pole.
• They make the Earth look like a peeled orange.

• The **Prime meridian** divides the earth in half too.
• It is also 0°. It passes through the community of Greenwich, England.

**The International Date Line**
- There are 180 lines of longitude on each side of the prime meridian.
- But on the opposite side, the primer meridian is not zero degrees but 180°.
- It is called the International Date Line.

**East and West Longitudes**
- Longitude lines connect with the **North** and **South** pole.
- The line of 0° longitude is called the **Prime Meridian**.
- Longitude lines give directions **East** and **West** of the prime meridian.
- There are **180** degrees of longitude on each side of the prime meridian.
- Longitude lines are NOT **Parallel** like latitude lines.
Using Latitude and Longitude

- To find your exact location on a map, you need to determine which latitude line and which longitude line meet where you are standing.
- When writing locations, the latitude is given first.
  - For example
    - Miami, Florida, has a location of 25° North and 80° West.
    - This is usually written in a short form as 25° N 80° W

**Let's Practice**

- Give the Latitude and Longitude of each of the following shapes.
  - Viking Ship
  - Hurricane
  - Tourist
  - Rafter
  - Whale
  - Canoeists
  - Flying Bird