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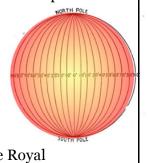


Longitude and Latitude

The ancient Babylonians divided any circle or sphere into 360 degrees. Ptolemy was a Greek thinker who borrowed the Babylonians' ideas as he wrote one of the first books book on geography. Ptolemy wrote that the furthest point at the right or left side of a circle or a sphere is 90 degrees from the top. There are 180 degrees between any two sides of a circle or sphere. This means that the north and south poles are 180 degrees apart from one another, and both poles are 90 degrees from the equator. The equator is the imaginary line that is as far away from the North Pole as it is from the South Pole.

The horizontal lines that circle the globe are called Lines of Latitude. Lines of Latitude are also known as parallels because they parallel, or run in the same direction as the equator.

The lines that run
between the North and the
South Poles are called
Lines of Longitude, or
meridians. The line at zero
degrees longitude is called
the prime meridian. The
prime meridian was set at the Royal



Observatory in Greenwich, England.

Meridians are counted east and west from the prime meridian, which is numbered zero degrees longitude. The International Date Line is located 180 degrees, as far away as possible, from the prime meridian.

When it is noon along the prime meridian, it is

midnight along the International Date Line.

Geographers also divide the earth into hemispheres. Hemi- is a prefix that means half. Everything north of the equator is in the Northern Hemisphere, while everything south of the equator is in the Southern Hemisphere. The Western Hemisphere is west of the prime meridian, while the Eastern Hemisphere is east of the prime meridian. The hemispheres both end at the International Date Line. The United States is in the Northern and Western Hemispheres. West Palm Beach, Florida is 80 degrees west of the prime meridian and 26 degrees north of the equator. This is commonly expressed as 26°N,80°W.

Answer in complete sentences

1. How many degrees are in a circle?		
2. What is the equator?		
3. What imaginary lines parallel the globe from east to west?		

^{*}This is a higher order learning question. You must answer the question to the best of your ability, but any reasonable answer will be graded as correct.

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	Fill in the Blanks
Our *p	is a sphere. The ancient Babylonians divided spheres or

Fill in the Blanks					
Our *p is a sphere. The ancient Babylonians divided spheres or					
c into degrees. Most Americans use a base ten numeral system	ı, but				
Babylonian arithmetic used a place-valued sexagesimal system. The Babylonian base s	sixty is				
still used in measuring time. Sixty *s equal one minute; 60 minutes	equal				
one *h					
Geographers created an imaginary grid to help locate places on earth. Lines of	Latitude,				
or p, circle the globe from e to w oo latitude i	is known				
as the e are of from the equal as the e of from the equal as the equal a	itor.				
Lines of L, or m, run north to south. The	ıe				
pi_e mr_din runs through G, England.					
The hour of the day is determined mostly by what part of the earth faces the *s_	•				
When it is noon in Greenwich, it's close to *m along the					
I D L because that line is about	0				
from the Prime Meridian, or *h_l_w_y around the world. The h of the o	lay				
changes as you move e or w because you are moving closer to or furth	ier away				
from the s West Palm Beach, Florida is ato north and 80° w T	This				
means we are 26° north of the e and degrees away from the Pri	ime				
Meridian.					
Answer in complete sentences					
4. West Palm Beach, Florida is at 27°N,80°W. Explain what 27°N,80°W means.					
5. Find the longitude and latitude of your home or school by going to http://www.worldatlas.com/aatlas/latitude_and_longitude_finder.htm					
http://www.woridatias.com/aatias/iatitude_and_longitude_inider.htm					

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