

Free pdf Super teacher answers latitude longitude and hemisphere Copy

the western hemisphere lies west of 0 longitude and east of 180 longitude it includes north america and south america the eastern hemisphere lies east of 0 longitude and west of 180 longitude it includes almost all of europe and africa and all of asia and australia the southern hemisphere is the southern half of the earth it starts at 0 latitude and continues south until it reaches the 90 s latitude the south pole northern hemisphere bias some differences between the southern and northern hemispheres are literally polar opposite but tend to be portrayed from the perspective of the northern hemisphere western hemisphere part of earth comprising north and south america and the surrounding waters longitudes 20 w and 160 e are often considered its boundaries some geographers however define the western hemisphere as being the half of earth that lies west of the greenwich meridian prime lines of longitude also called meridians are imaginary lines that divide the earth they run north to south from pole to pole but they measure the distance east or west longitude is measured in degrees minutes and seconds circles of latitude and longitude circles of latitude are imaginary east to west circles that connect all places with the same latitude the reference plane for all circles of latitude is the equatorial circle of latitude that bisects the earth the prime meridian is the line of 0 longitude the starting point for measuring distance both east and west around earth the prime meridian is arbitrary meaning it could be chosen to be anywhere any line of longitude a meridian can serve as the 0 longitude line while the equator divides earth into northern and southern hemispheres it is the prime meridian at zero degrees longitude and the line of longitude opposite the prime meridian near the international date line at 180 degrees longitude that divides earth into the eastern and western hemispheres the eastern hemisphere is the half of the planet earth which is east of the prime meridian which crosses greenwich london united kingdom and west of the antimeridian which crosses the pacific ocean and relatively little land from pole to pole some lines called parallels are perpendicular to the earth s axis that is parallel to the equator and measure latitude or distances north and south other lines

called meridians can be drawn that connect the north and south poles and measure longitude or distances east and west longitude degrees extend 180 east and 180 west from the prime meridian an imaginary line dividing the earth into an eastern and western hemisphere and meet to form the international date line in the pacific ocean at 180 longitude 0 longitude falls in greenwich england where a physical line showing the division between the eastern and we the half west of the zero line can be called the western hemisphere the half east of the zero line the eastern hemisphere encyclopædia britannica inc the north south lines and the east west lines together form the global grid system used to find the exact location of any place on earth a geographic coordinate system gcs is a spherical or geodetic coordinate system for measuring and communicating positions directly on earth as latitude and longitude 1 it is the simplest oldest and most widely used of the various spatial reference systems that are in use and forms the basis for most others latitude and longitude are obtained from the angle of lines passing through poles and the earth s center latitude and longitude are measured in degrees minutes and seconds one degree 1 60 minutes if the latitude and longitude coordinates of a location are known it can be pinpointed on a map or globe knowing the spherical coordinates of a location is useful for people when hiking diving or surveying an environment to help locate where a place is in the world people use imaginary lines called latitude and longitude find out more with this year 3 4 bbc bitesize geography guide in the northern hemisphere latitude can be determined by the angle of the north star polaris from the horizon the north star always sits over the north pole here if a person looks straight ahead towards the horizon the star would be directly overhead creating a 90 o angle thus the latitude at the north pole is 90 o n both latitude and longitude are angles that uniquely define points on the earth s sphere they constitute a coordinate system or scheme to locate or identify geographic positions anywhere on the earth s surface latitudes are horizontal lines that measure distance north or south of the equator latitude longitude and hemispheres part i choose the best word s from the box to complete each sentence latitude longitude prime meridian equator meridians north south west east parallels 1 lines of latitude measure how far from the equator a place is 2 lines of longitude run from the north pole to the south pole 3 the greenwich meridian divides the earth into a western hemisphere and an eastern hemisphere so the equator at 0o latitude divides the earth into the northern and southern hemispheres while greenwich meridian at 0o longitude divides the earth into the western and the eastern hemispheres latitude and longitude together can describe the exact location of any place on earth for example washington d

c lies 39 degrees north of the equator and 77 degrees west of the prime meridian its position is 39 n 77 w these two numbers together are called coordinates

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the western hemisphere lies west of 0 longitude and east of 180 longitude it includes north america and south america the eastern hemisphere lies east of 0 longitude and west of 180 longitude it includes almost all of europe and africa and all of asia and australia

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western hemisphere part of earth comprising north and south america and the surrounding waters longitudes 20 w and 160 e are often considered its boundaries some geographers however define the western hemisphere as being the half of earth that lies west of the greenwich meridian prime

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lines of longitude also called meridians are imaginary lines that divide the earth they run north to south from pole to pole but they measure the distance east or west longitude is measured in degrees minutes and seconds

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circles of latitude and longitude circles of latitude are imaginary east to west circles that connect all places with the same latitude the reference plane for all circles of latitude is the equatorial circle of latitude that bisects the earth

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the prime meridian is the line of 0 longitude the starting point for measuring distance both east and west around earth the prime meridian is arbitrary meaning it could be chosen to be anywhere any line of longitude a meridian can serve as the 0 longitude line

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while the equator divides earth into northern and southern hemispheres it is the prime meridian at zero degrees longitude and the line of longitude opposite the prime meridian near the international date line at 180 degrees longitude that divides earth into the eastern and western hemispheres

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some lines called parallels are perpendicular to the earth s axis that is parallel to the equator and measure latitude or distances north and south other lines called meridians can be drawn that connect the north and south poles and measure longitude or distances east and west

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the half west of the zero line can be called the western hemisphere the half east of the zero line the eastern hemisphere encyclopædia britannica inc the north south lines and the east west lines together form the global grid system used to find the exact location of any place on earth

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a geographic coordinate system gcs is a spherical or geodetic coordinate system for measuring and communicating positions directly on earth as latitude and longitude 1 it is the simplest oldest and most widely used of the various spatial reference systems that are in use and forms the basis for most others

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latitude and longitude are obtained from the angle of lines passing through poles and the earth s center latitude and longitude are measured in degrees minutes and seconds one degree 1 60 minutes

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if the latitude and longitude coordinates of a location are known it can be pinpointed on a map or globe knowing the spherical coordinates of a location is useful for people when hiking diving or surveying an environment

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to help locate where a place is in the world people use imaginary lines called latitude and longitude find out more with this year 3 4 bbc bitesize geography guide

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latitude longitude and hemispheres part i choose the best word s from the box to complete each sentence latitude longitude prime meridian equator meridians north south west east parallels 1 lines of latitude measure how far from the equator a place is 2 lines of longitude run from the north pole to the south pole 3

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