# Latitude Longitude Worksheet Answer Key PDF

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## Part 1: Foundational Knowledge

**What is the latitude of the Equator?**

**undefined. A) 0° ✓**

undefined. B) 45°

undefined. C) 90°

undefined. D) 180°

The latitude of the Equator is 0°.

**Which of the following are true about longitude? (Select all that apply)**

undefined. A) It measures distance north or south of the Equator.

**undefined. B) It measures distance east or west of the Prime Meridian. ✓**

**undefined. C) It ranges from 0° to 180°. ✓**

**undefined. D) It is used to determine time zones. ✓**

Longitude measures distance east or west of the Prime Meridian and ranges from 0° to 180°.

**Explain the significance of the Prime Meridian in the global coordinate system.**

**The Prime Meridian is the reference line for measuring longitude and is essential for global navigation and time zones.**

**List the four hemispheres of the Earth.**

1. What is the Northern Hemisphere?

**The half of the Earth that is north of the Equator.**

2. What is the Southern Hemisphere?

**The half of the Earth that is south of the Equator.**

3. What is the Eastern Hemisphere?

**The half of the Earth that is east of the Prime Meridian.**

4. What is the Western Hemisphere?

**The half of the Earth that is west of the Prime Meridian.**

The four hemispheres are the Northern Hemisphere, Southern Hemisphere, Eastern Hemisphere, and Western Hemisphere.

## Part 2: comprehension

**Which line divides the Earth into the Northern and Southern Hemispheres?**

undefined. A) Prime Meridian
undefined. B) Tropic of Cancer
**undefined. C) Equator ✓**
undefined. D) International Date Line

The Equator divides the Earth into the Northern and Southern Hemispheres.

**Which statements correctly describe the use of latitude and longitude? (Select all that apply)**

**undefined. A) They are used to locate places on Earth. ✓**
undefined. B) They are measured in kilometers.
**undefined. C) They are essential for GPS technology. ✓**
undefined. D) They only apply to landmasses.

Latitude and longitude are used to locate places on Earth and are essential for GPS technology.

**Describe how latitude and longitude coordinates can be used to determine a specific location on a map.**

**Latitude and longitude coordinates pinpoint a specific location on a map by providing a unique reference point.**

## Part 3: Application

**If a city is located at 34°N latitude and 118°W longitude, in which hemisphere is it located?**

undefined. A) Northern and Eastern

**undefined. B) Northern and Western ✓**

undefined. C) Southern and Eastern

undefined. D) Southern and Western

The city is located in the Northern and Western Hemispheres.

**Which of the following scenarios would require the use of latitude and longitude? (Select all that apply)**

**undefined. A) Planning a road trip across the country. ✓**

undefined. B) Determining the climate of a region.

**undefined. C) Navigating a ship across the ocean. ✓**

undefined. D) Finding the time of sunrise in a city.

Scenarios such as planning a road trip and navigating a ship require the use of latitude and longitude.

**Imagine you are a pilot. How would you use latitude and longitude to navigate from one city to another?**

**As a pilot, I would use latitude and longitude to plot a course on a map and ensure accurate navigation between cities.**

## Part 4: Analysis

**Which factor is primarily responsible for the division of time zones across the world?**

undefined. A) Latitude

**undefined. B) Longitude ✓**

undefined. C) Altitude

undefined. D) Climate

Longitude is primarily responsible for the division of time zones.

**Analyze the relationship between latitude and climate. Which statements are true? (Select all that apply)**

**undefined. A) Areas near the Equator tend to be warmer. ✓**

**undefined. B) High latitudes generally experience colder climates. ✓**

undefined. C) Latitude has no effect on climate.

undefined. D) The poles receive more direct sunlight than the Equator.

Areas near the Equator tend to be warmer, while high latitudes generally experience colder climates.

**Discuss how the understanding of latitude and longitude can help in disaster management and relief operations.**

**Understanding latitude and longitude is crucial for locating affected areas and coordinating relief efforts during disasters.**

## Part 5: Evaluation and Creation

**Which of the following best evaluates the effectiveness of using GPS technology in modern navigation?**

undefined. A) It is outdated and rarely used.

**undefined. B) It provides accurate and real-time location data. ✓**

undefined. C) It is only useful for military purposes.

undefined. D) It cannot be used in remote areas.

GPS technology provides accurate and real-time location data, making it highly effective for navigation.

**Propose solutions for improving the accuracy of GPS systems. Which of the following could be effective? (Select all that apply)**

**undefined. A) Increasing the number of satellites. ✓**

**undefined. B) Using more advanced algorithms. ✓**

undefined. C) RelyING solely on traditional maps.

**undefined. D) Enhancing ground-based support systems. ✓**

Increasing the number of satellites and using advanced algorithms could improve GPS accuracy.

**Design a simple educational activity for middle school students to help them understand the concept of latitude and longitude using everyday materials.**

**An educational activity could involve creating a large map on the ground and using ropes to represent lines of latitude and longitude.**