

Prime Meridian Quiz Answer Key PDF

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Reflect on how the Prime Meridian might be affected by future technological advancements.

Technological advancements may refine the accuracy of the Prime Meridian's location and its role in global navigation systems.

What role does the Prime Meridian play in dividing the Earth into hemispheres?

The Prime Meridian divides the Earth into the Eastern and Western Hemispheres.

Which hemisphere does the Prime Meridian divide the Earth into?

- A. Northern and Southern
- B. Eastern and Western ✓**
- C. Arctic and Antarctic
- D. None of the above

At what degree of longitude is the Prime Meridian located?

- A. 90 degrees
- B. 180 degrees
- C. 0 degrees ✓**
- D. 45 degrees

What are some impacts of the Prime Meridian on modern technology? (Select all that apply)

- A. GPS navigation ✓**
- B. Internet connectivity
- C. Satellite communication ✓**

D. Global mapping ✓

What is the Prime Meridian?

- A. A line of latitude
- B. A line of longitude ✓**
- C. A line of altitude
- D. A line of latitude and longitude

Which observatory is associated with the Prime Meridian?

- A. Paris Observatory
- B. Royal Observatory ✓**
- C. Tokyo Observatory
- D. Harvard Observatory

Which of the following are functions of the Prime Meridian? (Select all that apply)

- A. Dividing the Earth into hemispheres ✓**
- B. Establish time zones ✓**
- C. Determining latitude
- D. Serving as a reference for GPS systems ✓**

Describe the historical process that led to the establishment of the Prime Meridian.

The Prime Meridian was established at the 1884 International Meridian Conference, where it was agreed that the meridian at Greenwich, England, would be the standard for zero degrees longitude.

Discuss the cultural significance of the Prime Meridian in terms of timekeeping.

The Prime Meridian is culturally significant as it established a global standard for timekeeping, allowing for synchronized time across different regions and enhancing international navigation and communication.

Explain why the Prime Meridian is important for global navigation.

The Prime Meridian is important for global navigation because it defines the starting point for measuring longitude, which is essential for accurate positioning and navigation on maps and in GPS systems.

Through which city does the Prime Meridian pass?

- A. Paris
- B. New York
- C. Greenwich ✓**
- D. Tokyo

Why was Greenwich chosen as the location for the Prime Meridian? (Select all that apply)

- A. It was centrally located
- B. The Royal Observatory was located there ✓**
- C. It was a major trade hub
- D. It had the most advanced astronomical equipment at the time ✓**

Which of the following is the basis for Greenwich Mean Time (GMT)?

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

Which of the following are related to the Prime Meridian's historical significance? (Select all that apply)

- A. Navigation ✓**
- B. Astronomy ✓**
- C. Political boundaries
- D. Timekeeping ✓**

Which countries does the Prime Meridian pass through? (Select all that apply)

- A. United Kingdom ✓**
- B. France ✓**
- C. Spain ✓**

D. United States

What is the primary function of the Prime Meridian in geography?

- A. Determining latitude
- B. Establish political boundaries
- C. Serving as a reference for longitude ✓**
- D. Measuring altitude

What changes have affected the precise location of the Prime Meridian? (Select all that apply)

- A. Earth's crust movements ✓**
- B. Technological advancements ✓**
- C. Changes in sea level
- D. Satellite data ✓**

How does the Prime Meridian influence modern GPS technology?

The Prime Meridian influences modern GPS technology by providing a standardized reference for longitude, enabling accurate location tracking and navigation.

Which conference established the Prime Meridian?

- A. Paris Conference
- B. International Meridian Conference ✓**
- C. Greenwich Conference
- D. Longitude Conference