

## Quiz

**1 The following evidence was gathered to support the idea that Gladys West worked on other pioneering studies that were unrelated to her GPS contributions.**

Evidence 1. No, the world wouldn't go back to the Stone Age without GPS, but the Global Positioning System pioneered by U.S. Navy mathematician Gladys West has changed the world in increasingly immeasurable ways.

Evidence 2. In an interview commemorating the 100th anniversary of the Navy's Dahlgren installation in 2018, West explained that she had finished her mathematical education at historically black Virginia State University and started a teaching job before leaving education for a position at Dahlgren — where she stayed from 1956 until she retired in 1998.

Evidence 3. At Dahlgren, West did the mathematical calculations necessary to create the satellite-run radio navigation system operated by the U.S. Air Force.

**Is this evidence adequate support for the idea? Why or why not?**

- (A) Yes; it describes the work she did at the U.S. Navy's Dahlgren.
- (B) Yes; it focuses on her work with the satellite systems.
- (C) No; it fails to highlight the work she did on planetary motion.
- (D) No; it lacks information about her work with the U.S. Air Force.

**2 Which of the following claims does the author support the LEAST?**

- (A) Gladys West was proud of the work she did to help create GPS.
- (B) Gladys West was honored for the work she did at Dahlgren.
- (C) GPS technology has been used by space programs and the military.
- (D) GPS technology is an integral part of people's daily lives.

**3 Which of the following statements accurately represents the relationship between the article's central ideas?**

- (A) Gladys West did groundbreaking work with satellite systems that would be the forerunner of the Global Positioning System; West's work would eventually lead to GPS' use in a wide variety of settings.
- (B) Gladys West did groundbreaking work with satellite systems that would be the forerunner of the Global Positioning System; West also did astronomical work on the movements of Pluto and Neptune.
- (C) Gladys West received the U.S. Air Force Space and Missile Pioneers Award for her pioneering work throughout the years; West's work would eventually lead to GPS' use in a wide variety of settings.
- (D) Gladys West received the U.S. Air Force Space and Missile Pioneers Award for her pioneering work throughout the years; West also did astronomical work on the movements of Pluto and Neptune.

**4 Read the following two details from the article.**

"I did hand calculations on a [mechanical] Marchant calculator — you know, we had to verify data," West said of her work before a computer was installed at the Navy base.

With the new computer, West successfully worked on a model to use satellites to precisely measure surface elevations of the Earth and determine specific locations.

**Select the option that BEST explains how these details develop a central idea of the article.**

- (A) They contribute to the idea that West played an important role in the development of GPS by describing problems she faced.
- (B) They contribute to the idea that West played an important role in the development of GPS by highlighting her methods.
- (C) They support the idea that West played an important role in the development of GPS by describing other studies that she worked on.
- (D) They support the idea that West played an important role in the development of GPS by highlighting her opinions about her work.