Name_____

Lit. of Science I: Astronomers Spot Unprecedented Flashes From Black Hole Vocabulary

Infrared Radiation A form of electromagnetic radiation that goes beyond the red end of the visible spectrum: it is often used to produce heat.

Astrophysics: The branch of physics concerned with space and the universe.

Emit: give off, send out

Modify: change

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1. In which galaxy is the black hole the article discusses?
a. Sagittarius A*
b. Tuan Do
c. Gizmodo
d. The Milky Way

2. What did scientists observe last May?
a. the fact that Einstein's theory of gravity is definiely incorrect.
b. the biggest black hole they have ever discovered.
c. the brightest radiation ever seen coming from a black hole.
d. a star that's 4 million times the mass of the Sun.

3. Which is true of the infrared radiation bursts?
a. They were definitely a one time thing.
b. The amount of light they emitted was stable throughout the viewing.
c. The May 13 viewing was the first of a black hole emitting radiation ever seen.
d. The amount of light emitted increased dramatically in just two hours.

4. Which is true according to the article?
a. Based on this observation, we now know that light can escape a black hole.
b. The observed radiation came from just outside the black hole.
c. The observation proved that Einstein's theory of general relativity is wrong.
d. The observation now appears to be a star being eaten by the black hole.

Write a full paragraph (at least six sentences) how this observation affects scientists' views about Einstein's theory of General Relativity. Use quotes from the article to back up your statements. While the theory is difficult (and explained on an earlier vocabulary sheet, you don't have to understand it fully to answer this question. (Use the back for this paragraph.)