

## Pluto: The Planet That Wasn't



NASA

*Pluto*

Poor Pluto!

It's bad enough to be the runt of the group, but to be told after 75 years that you're not even a member of the club - what an insult!

Pluto was first discovered in 1930. Until 2006, students were taught that it was the ninth and smallest planet in the solar system. Smaller than Earth's moon, it is not even as wide as the United States.

Pluto is made up almost entirely of rock and ice. It is so far away that it took the NASA New Horizons spacecraft over 11 years to get there from Earth. Pluto's full orbit around the sun lasts almost 250 Earth years!

But as small as it is, as cold as it is, as far from the sun as it is, for all those years it was considered the ninth planet of the solar system... until Eris came around.

Eris was discovered in 2005. It is about the same size as Pluto. And like Pluto, it is part of the Kuiper Belt, a ring of objects that circle the outer edge of the solar system.

After Eris was discovered, scientists had to make a decision. Either Eris was the 10th planet in the solar system or it was not a planet at all! And if Eris weren't a planet, could Pluto be considered one?

Scientists made new rules for what is counted as a planet, and decided that neither Pluto nor Eris qualified.

A new category was created: dwarf planet. The official list of planets in the solar system went from nine to eight, and Pluto and Eris became members of the dwarf planet club. So long for Planet Pluto-but at least it no longer has to be the littlest guy in the club. In fact, Pluto is one of the bigger dwarf planets! Maybe Pluto doesn't have it so bad after all.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. Pluto used to be considered a planet. Today, what is it considered to be?
  - A. It is considered to be a dwarf planet.
  - B. It is considered to be a star.
  - C. It is considered to be a comet.
  - D. It is considered to be an asteroid.
  
2. How does the text describe Pluto?
  - A. Pluto is made up entirely of ice, and it is bigger than Venus.
  - B. Pluto is made up entirely of rock and ice, and it is bigger than Earth's moon.
  - C. Pluto is made up entirely of gas, and it is bigger than Earth's moon.
  - D. Pluto is made up entirely of rock and ice, and it is smaller than Earth's moon.
  
3. Read these sentences from the text.

After Eris was discovered, scientists had to make a decision.

Either Eris was the 10th planet in the solar system or it was not a planet at all! And if Eris weren't a planet, could Pluto be considered one?

Scientists made new rules for what is counted as a planet, and decided that neither Pluto nor Eris qualified.

Based on this information, what did the discovery of Eris make scientists do?

- A. The discovery of Eris made scientists rethink the rules for what is counted as a star.
- B. The discovery of Eris made scientists rethink the rules for what is counted as a dwarf planet.
- C. The discovery of Eris made scientists rethink the rules for what is counted as a planet.
- D. The discovery of Eris made scientists add more planets to the group of planets.

4. After Eris was discovered, scientists had to decide whether to count it as a planet. Why did this make them question whether Pluto should still be counted as a planet?

- A. because Pluto and Eris are both space objects
- B. because Pluto and Eris were discovered at the same time
- C. because Pluto and Eris are very different
- D. because Pluto and Eris are very similar

5. What is the main idea of this text?

- A. Pluto was no longer considered a planet after the discovery of Eris made scientists come up with new rules for what is counted as a planet.
- B. Pluto is so far away that it took the NASA New Horizons spacecraft over 11 years to get there from Earth.
- C. Eris is about the same size as Pluto, and like Pluto, it is part of a ring of objects that circle the outer edge of the solar system.
- D. Scientists come up with rules for what is counted as a planet and what is not.

6. Read these sentences from the text.

"A new category was created: dwarf planet. The official list of planets in the solar system went from nine to eight, and Pluto and Eris became members of the dwarf planet club. So long for Planet Pluto-but at least it no longer has to be the littlest guy in the club. In fact, Pluto is one of the bigger dwarf planets! Maybe Pluto doesn't have it so bad after all."

What does the author mean by stating, "Maybe Pluto doesn't have it so bad after all"?

- A. Even though Pluto is no longer counted as a planet, it is in a new group called dwarf planets.
- B. Even though Pluto is no longer counted as a planet, it is one of the bigger dwarf planets.
- C. Even though Pluto is no longer counted as a planet, it is still part of the ring of objects that circle the outer edge of the solar system.
- D. Even though Pluto is now counted as a dwarf planet, it isn't alone as other space objects are counted as dwarf planets.

7. Choose the answer that best completes the sentence.

After scientists made new rules for what is counted as a planet, Pluto was no longer considered a planet. \_\_\_\_\_, the official list of planets in the solar system went from nine to eight.

- A. Therefore
- B. Although
- C. On the other hand
- D. Especially

8. According to the text, what were students taught about Pluto until 2006?

9. What decisions did scientists have to make after Eris was discovered?

10. Explain what made scientists decide to no longer count Pluto as a planet.

Support your answer with evidence from the text.