

Words to know

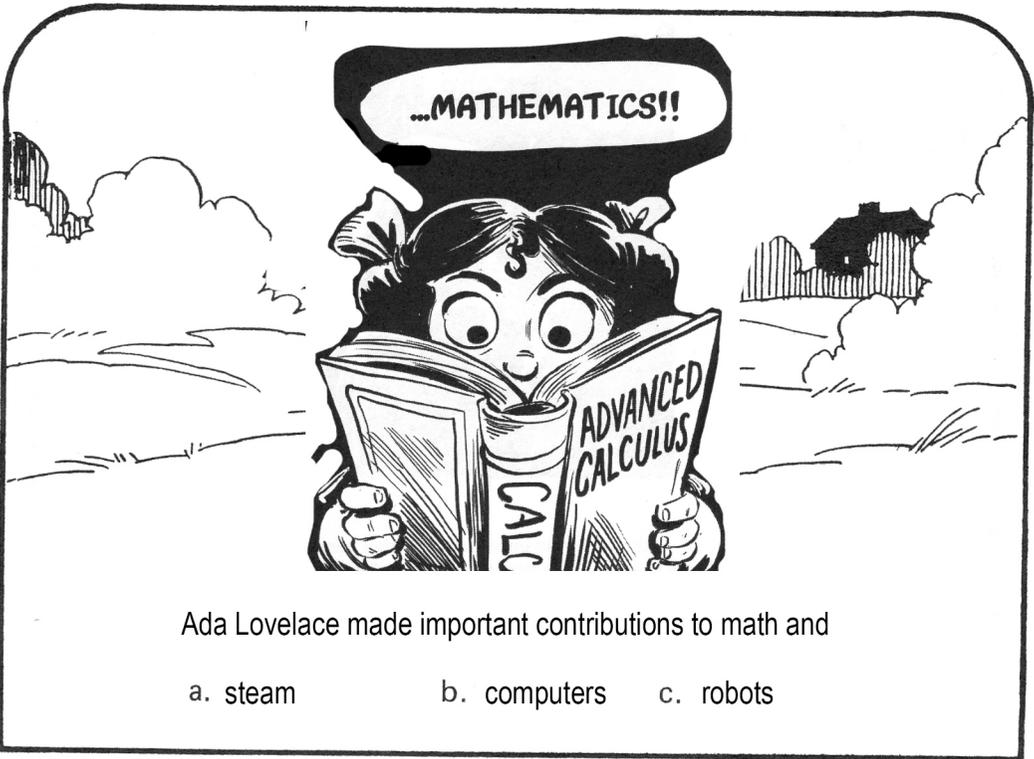
Can you use these words in sentences of your own?

computer program Lord Byron aristocracy
calculator countess steam engine
punch cards analytical Victorian

STUDY GUIDES FOR EDUCATIONAL COMIC BOOKS

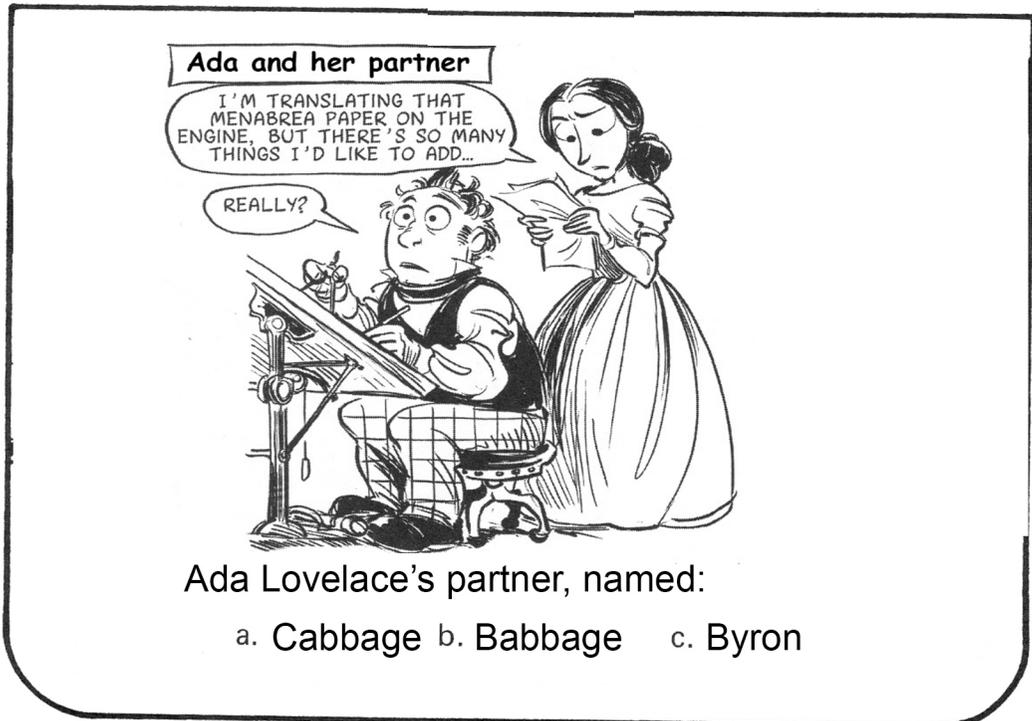
True or false

- 1.) The calculator Ada Lovelace programmed ran on electricity.
- 2.) Lady Lovelace was the daughter of Lord Byron.
- 3.) Because women didn't go to college in mid 19th century England, Ada had private tutors.
- 4.) Ada Lovelace's mother worried that her daughter would grow up to be a mad poet like her famous father.
- 5.) People did not understand mathamatics one hundred years ago.



Ada Lovelace made important contributions to math and

- a. steam b. computers c. robots



Ada Lovelace's partner, named:

- a. Cabbage b. Babbage c. Byron

KEY

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- 1.) The calculator Ada Lovelace programmed ran on electricity.

FALSE. A lever was pulled down to operate. Babbage planned to build a steam operated calculator but it was never completed.

- 2.) Lady Lovelace was the daughter of Lord Byron.

TRUE.

- 3.) Because women didn't go to college in mid 19th century England, Ada had private tutors.

TRUE.

- 4.) Ada Lovelace's mother worried that her daughter would grow up to be a mad poet like her famous father.

TRUE.

- 5.) People did not understand mathematics one hundred years ago. **FALSE.**

Words to know

Can you use these words in sentences of your own?

equator
altimeter
navigator

settlement house
bloomers
pioneer

aviation
pontoons
stunts

True or false

1. Amelia's family gave her all the money she needed for flying lessons.
2. Amelia was the first woman who had tried to cross the Atlantic in a plane.
3. The first time Amelia saw an airplane she knew right away that she wanted to fly.
4. Amelia always felt that women could do most of the things men could do - if they were only given half the chance.
5. Amelia crashed several times in her planes. This made her a bit afraid of flying again.

Do you remember?



Amelia entered college to study:

- a. nursing. b. medicine. c. teaching.



To pay for her flying lessons, Amelia had to get up early and get to her job with:

- a. the telephone company. b. the railroad.
c. the pizza shop.

Questions to think about and discuss

1. What were some of the dangers of flying in Amelia's time? Are the dangers the same or different today?
2. What medals and honors did Amelia receive for her flying adventures?
3. How did it happen that Amelia's last plane was lost at sea? What do you think finally happened to her? Why?
4. In what way was Amelia "a true American pioneer" as President Hoover called her?
5. What fields of work are opening to women today that will give them a chance to be like Amelia?

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For the following questions, choose the best answer or respond in complete sentences.

1. Which of the following statements best describes the central idea of the comic book?
 - A. Katherine Johnson overcame racial and gender discrimination and became one of the top mathematicians at NASA.
 - B. Katherine Johnson wanted to work for NASA, but her status as an African American woman prevented her from doing so.
 - C. Katherine Johnson was responsible for designing the first space probe sent to the Moon. D. Katherine Johnson had a difficult childhood, but after beginning work at NASA, she faced less discrimination.

2. Which section from the comic book best supports the answer to the central idea?
 - A. "In a time when minorities held very few jobs in mathematics and science, Johnson was a trailblazer."
 - B. "Johnson could vividly recall watching her older siblings go to school, wishing so much that she could go with them."
 - C. "As Johnson worked on math problems with the other female computers, she would ask questions."
 - D. "She encouraged students to learn more about mathematics and science — and to never give up on their dreams."

3. Which statement best describes the effect of Katherine being "immersed" and "inquisitive"?
 - A. They suggest that Katherine Johnson would ask questions of other students to study more effectively.
 - B. They suggest that Katherine Johnson was exceeding the expectations her family had set for her.
 - C. They show that Katherine Johnson's professors were committed to helping her succeed in her career.
 - D. They show that Katherine Johnson approached the study of mathematics with energy and enthusiasm.

4. How do the details about Johnson's early life help us understand her later success?
 - A. Her struggles in school show how much she developed during her early life before working for NASA.
 - B. By describing her love of counting, the text shows that Johnson was always passionate about math.
 - C. Johnson's enrollment in college at just 15 years old emphasizes how different she was from her peers.
 - D. Johnson's early academic success made her later accomplishments seem less impressive in comparison.

Words to know

Can you use these words in sentences of your own?

element
research
pitchblende

Nobel Prize
physics
radium

uranium
museum
czars

True or false

1. As a young woman, Marie Curie earned money in a teaching job.
2. After Pierre's death, Marie took the same teaching job he had held at the Sorbonne.
3. Marie died of food poisoning in 1934.
4. Today radium is often used to help cure arthritis.
5. Although Marie Curie was a great scientist, she had a hard time learning to cook.

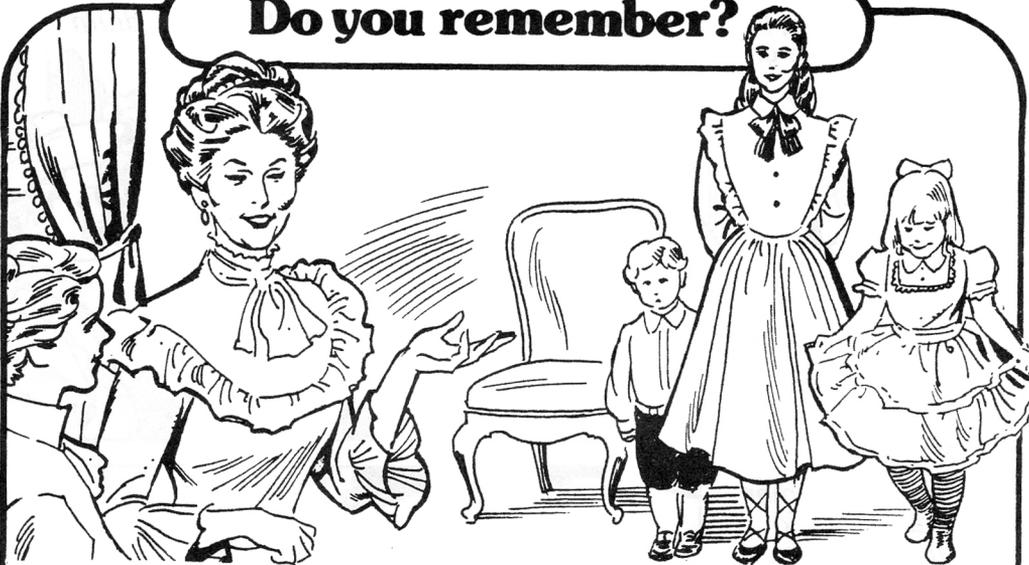


Marie married Pierre Curie, who was a fellow:
a. athlete. b. lawyer. c. scientist.



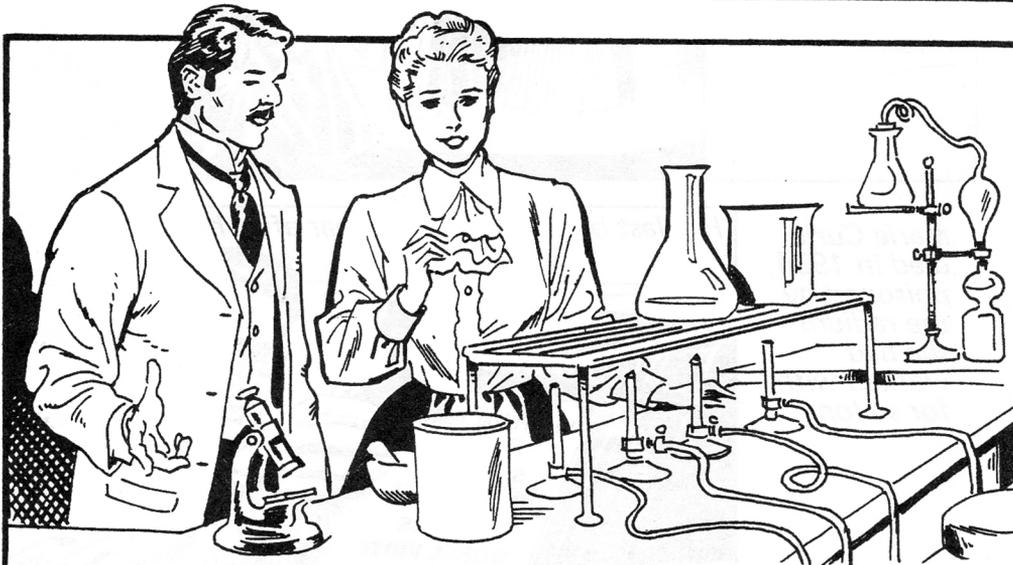
Marie Curie discovered:
a. silver. b. radium. c. gold.

Do you remember?



In order to earn money for her sister's education, Marie worked as a:

- a. sales clerk. b. governess. c. housemaid.



After her first visit to a laboratory, Marie knew that she wanted to:

- a. become a scientist. b. study law.
c. work with pottery.

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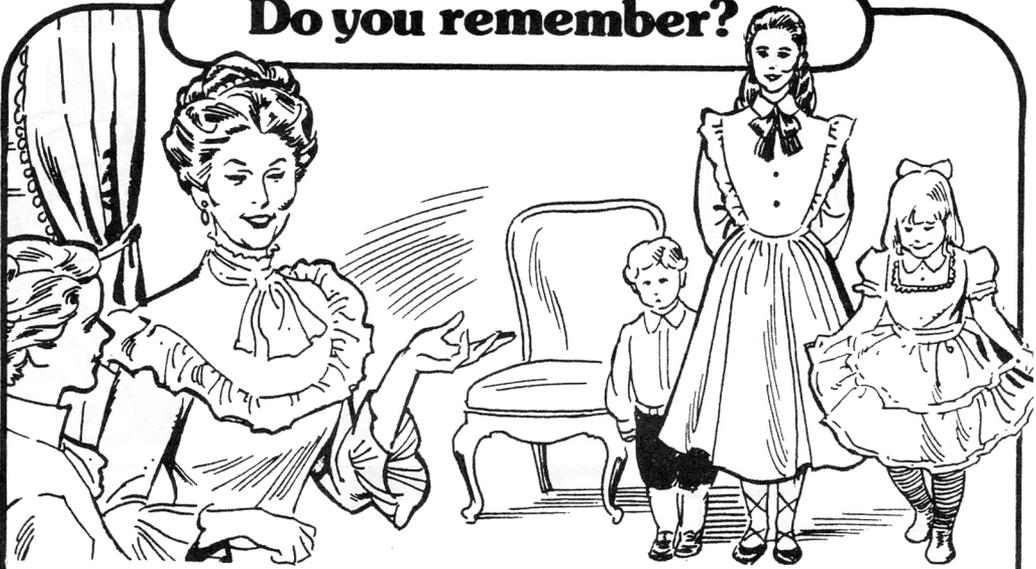
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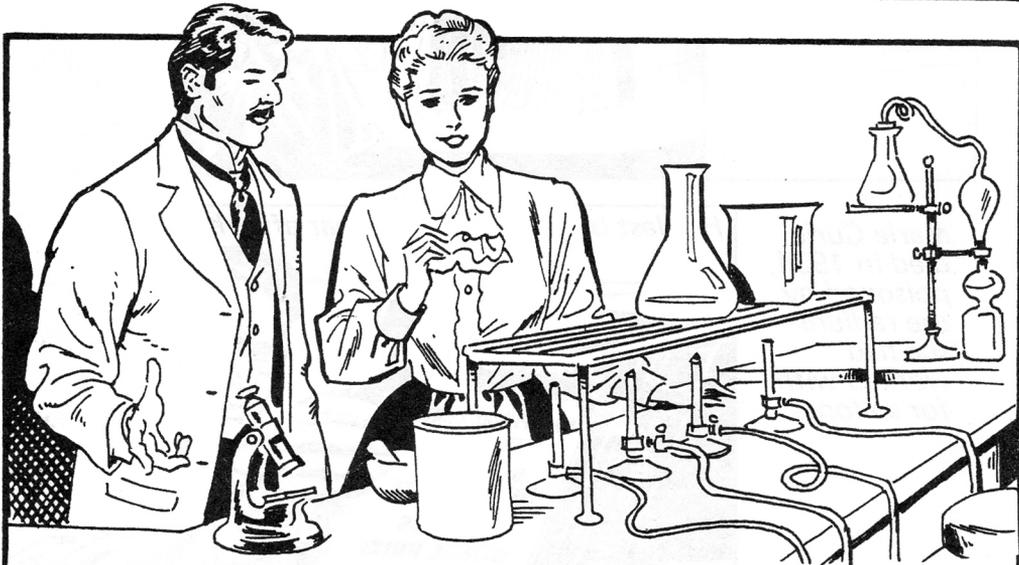
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