

Amoeba Sisters | Video Recap

NAME: _____

Amoeba Sisters Video Recap: Asexual and Sexual Reproduction

A Comparison of Reproduction Types

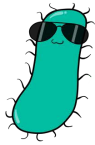
What could you infer about these spider plantlets based on the video and graphic shown below? Please place a checkmark next to any statements that would be correct for the graphic represented below.

- _____ 1. All of the plantlets are identical to the parent plant.
- _____ 2. All of the plantlets are identical to each other.
- _____ 3. The plantlets have a different **genetic code** from the parent plant.
- _____ 4. This represents **asexual reproduction**.
- _____ 5. This specific process involves **gametes**.
- _____ 6. The plantlets are the same size as the parent plant.
- _____ 7. This specific process involves a male and female plant.
- _____ 8. The plantlets are **uniform**.
- _____ 9. There is **genetic variation** among the plantlets.
- _____ 10. Each plantlet is a **clone** of the parent plant.
- _____ 11. This represents **sexual reproduction**.
- _____ 12. This type of reproduction also includes **binary fission** and **budding**.
- _____ 13. This requires two organisms to produce offspring.
- _____ 14. This requires only one organism to produce offspring.
- _____ 15. The **DNA** would be the same in the parent plant and offspring.
- _____ 16. **Fertilization** occurs in this type of reproduction.



17. What are some advantages of **asexual reproduction** when compared to **sexual reproduction**? What are some disadvantages of **asexual reproduction** when compared to **sexual reproduction**?




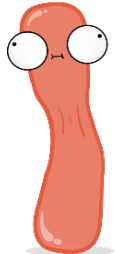
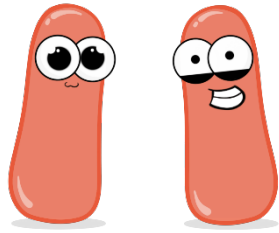


Amoeba Sisters | Video Recap

NAME: _____

You Create the Comic Captions

Create a speech bubble in #18 and #19 to represent what is occurring. Be creative! Each speech bubble must include the correct use of at least 3 different bolded words found in the questions from the previous page. You pick which bolded words to use, but please underline them in your speech bubbles!

<h3>Starting Comic</h3>	
18.	
19.	

20. Let's apply our understanding! Llamas have **sexual reproduction**. Some types of llamas have 74 chromosomes. That is how many chromosomes are in their **somatic** (body) cells. How many chromosomes would be found in their **gametes**? Explain how you would know.



21. Since llamas have **sexual reproduction**, the offspring have the potential to be genetically diverse. How can genetic diversity be an advantage when compared to **asexual reproduction**?

