

Asexual vs. Sexual Reproduction

Mrs. Deeley



I Can ...

- **Define asexual reproduction**
- **Define sexual reproduction**
- **Describe the differences between sexual and asexual reproduction**

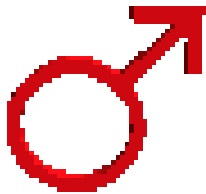
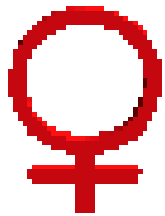


I Will

- Read and study PowerPoint & Video
- Complete a Venn Diagram (asexual reproduction and sexual reproduction)
- Illustrate (draw pictures) fertilization, budding, sexual reproduction, and asexual reproduction (be careful!!!)
- Explain and describe fertilization, budding, asexual reproduction, and sexual reproduction (working with a partner/small group)
- Write a paragraph (at least 5 sentences) explaining how offspring from sexual reproduction have more genetic differences than offspring from asexual reproduction

Sexual Reproduction

- Sexual Reproduction



- 1. 2 parents
- 2. Sex cells: sperm and egg
- 3. Sperm and egg join= fertilization
- 4. Offspring look different from parent (mixed DNA)

Sexual Reproduction

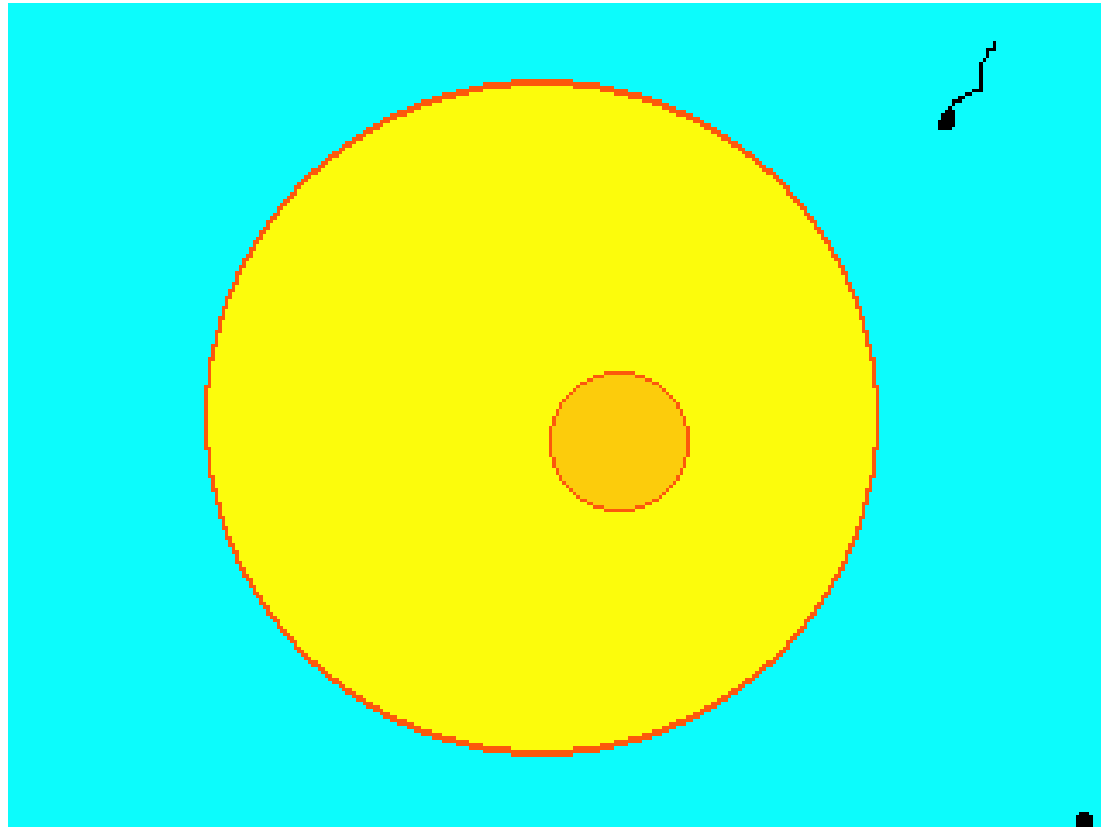
- Sexual Reproduction

- 5. Examples

- Humans, some plants, mammals, fish, reptiles, etc.



Sexual Reproduction



Fertilization: part of the process of sexual reproduction in which a male reproductive cell and a female reproductive cell combine to form a new cell that can develop into a new organism.



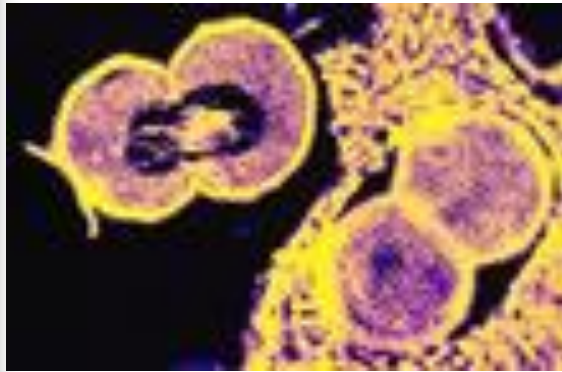
Asexual Reproduction

- Asexual Reproduction

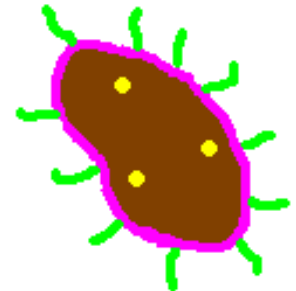
- 1. One parent
- 2. No sex cells
- 3. Offspring produced by cell division
- 4. Offspring identical to parent (same DNA)
- 5. Several types in plants and animals

Types of Asexual Reproduction

■ Binary Fission

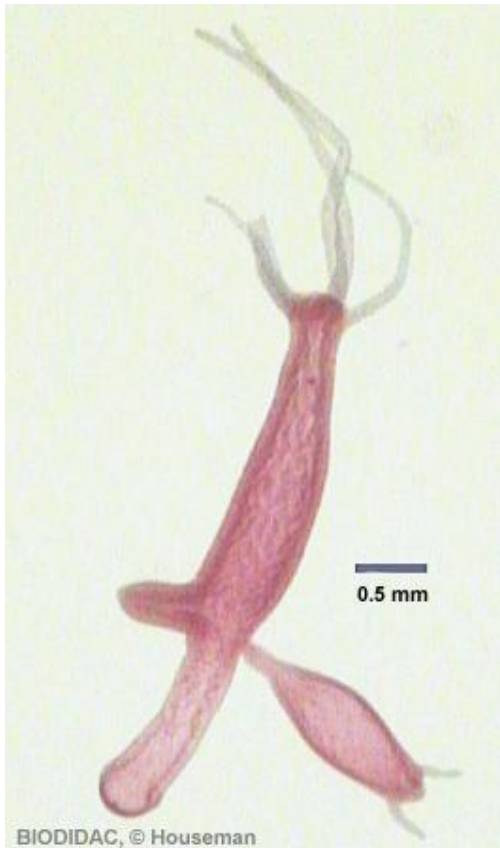


- 1. Organism divides in half
- 2. 2 identical daughter cells produced
- 3. Daughter cells are half the parent's size
- 4. Daughter cells grow, then divide too
- 5. In bacteria

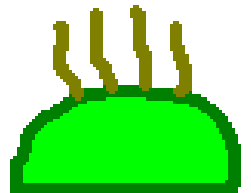


Types of Asexual Reproduction

■ Budding



- 1. Small bud grows out of parent cell
- 2. Two different sized cells made (with identical DNA)
- 3. Bud breaks off and grows
- 4. In yeast and hydra



Types of Asexual Reproduction

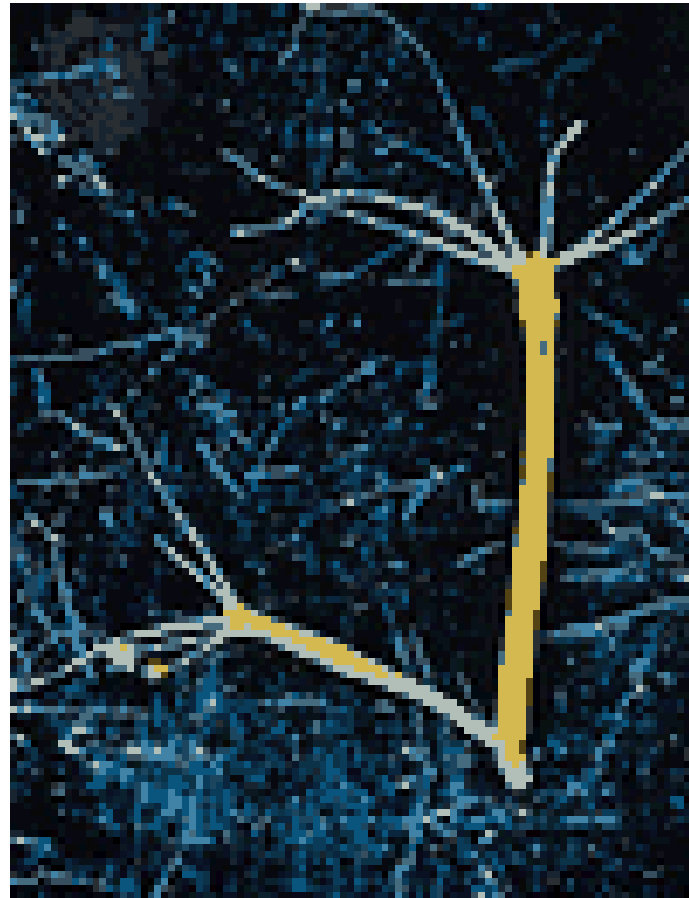
■ Regeneration



- 1. Repair/ grow lost body parts
- 2. Left over cells divide to make more cells
- 3. Lobsters, starfish, lizards



What type of reproduction is this??? Explain...



What type of reproduction is this??? Explain...



What type of reproduction is this???

Explain...



What type of reproduction is this??? Explain...

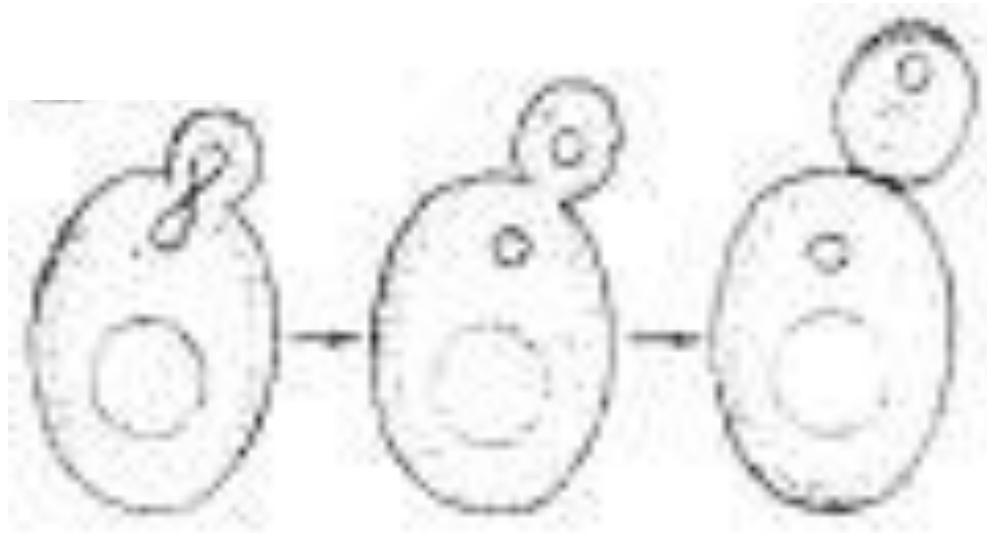


What type of reproduction is this???

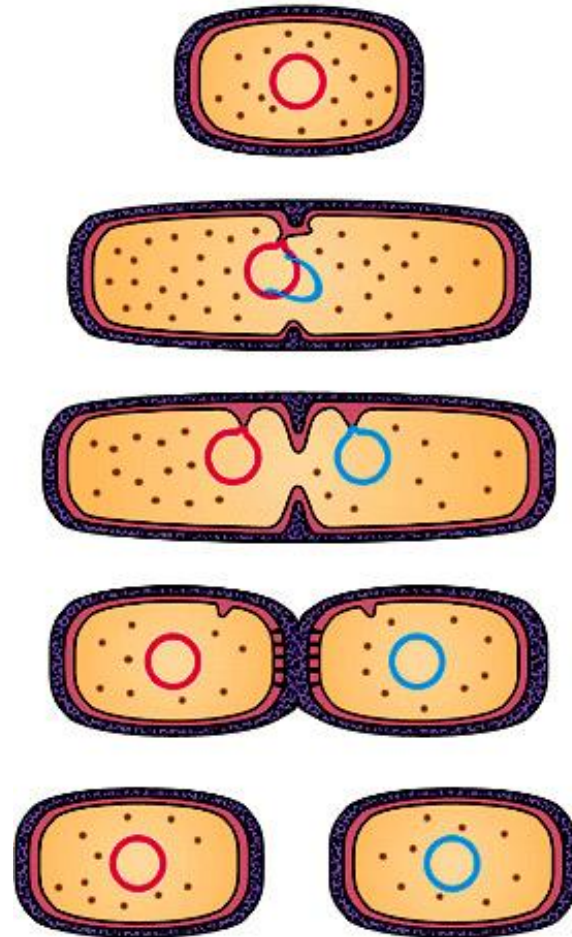
Explain...



What type of reproduction is this??? Explain...

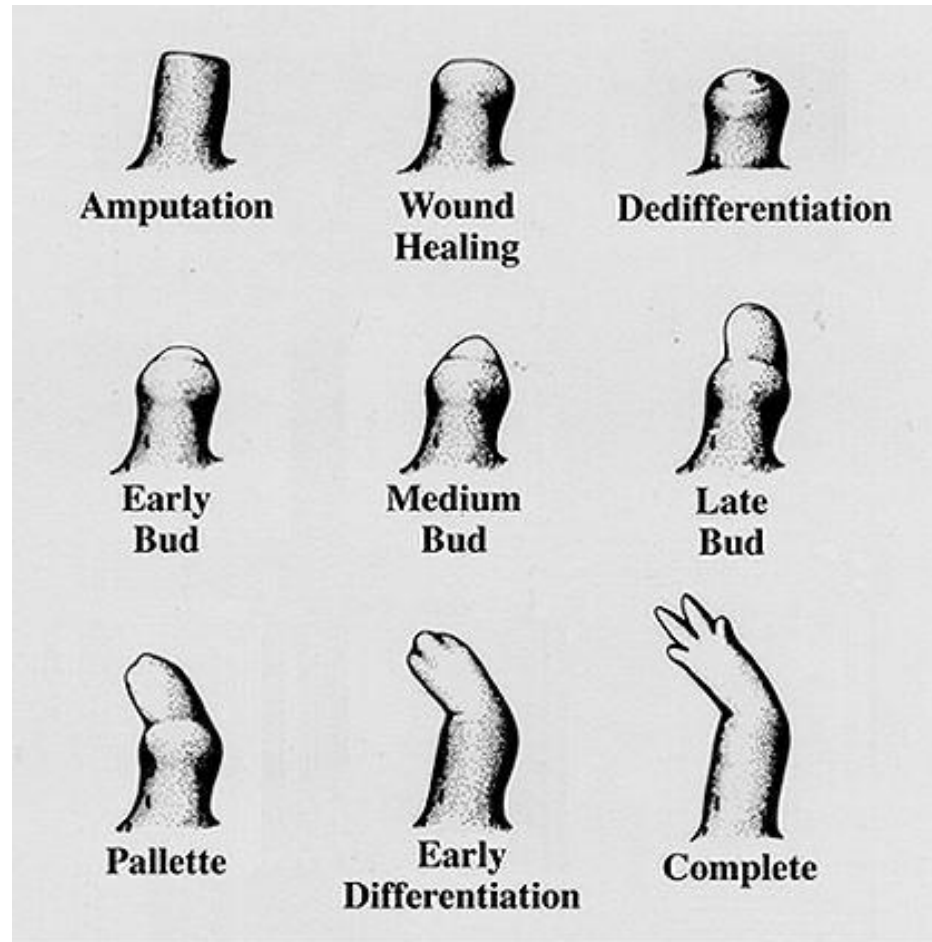


What type of reproduction is this??? Explain...



What type of reproduction is this???

Explain...



What type of reproduction is this??? Explain...

Amoeba divides after it has grown to a certain size.



The pseudopodia are pulled in and the nucleus divides.



The cell body begins to divide when the nucleus has split.

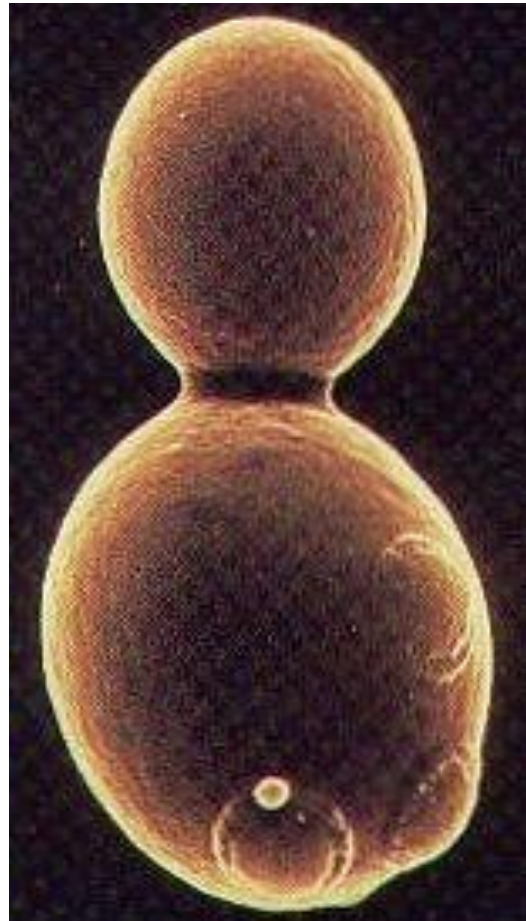


Two daughter amoebae are formed.

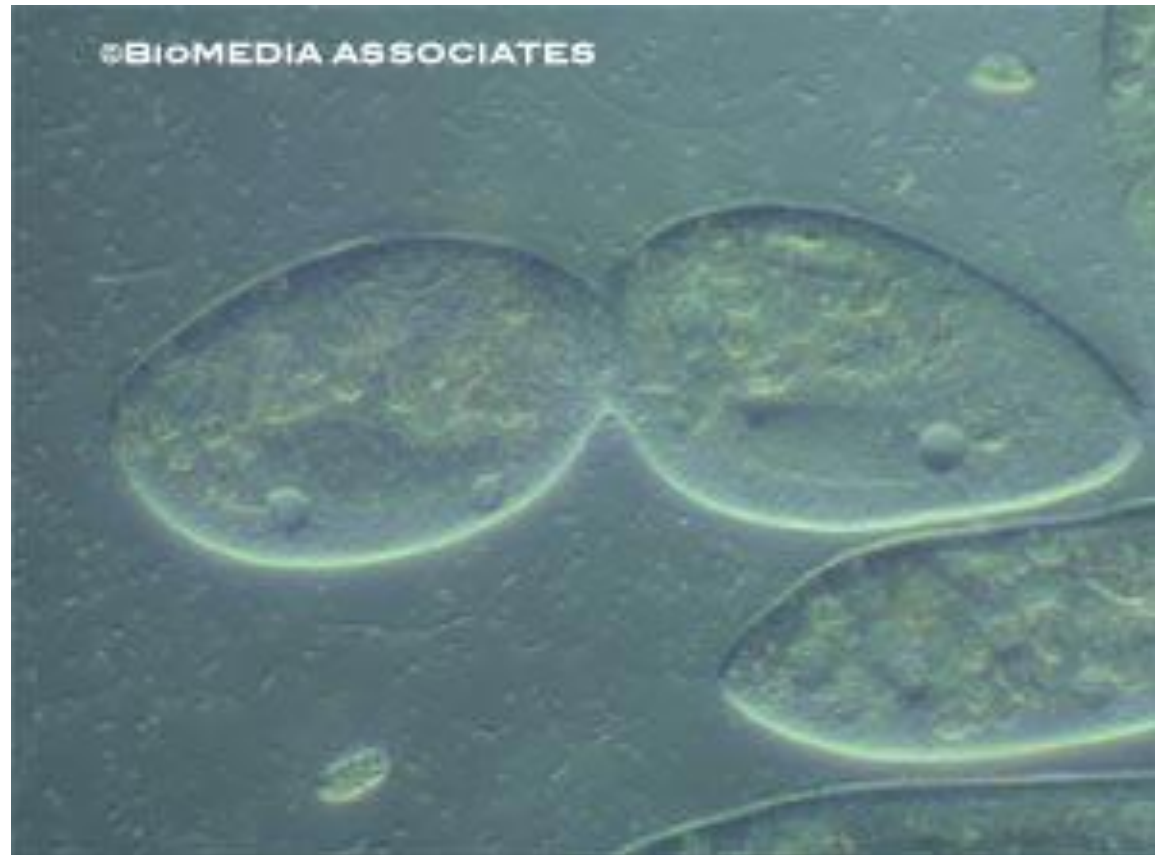


What type of reproduction is this???

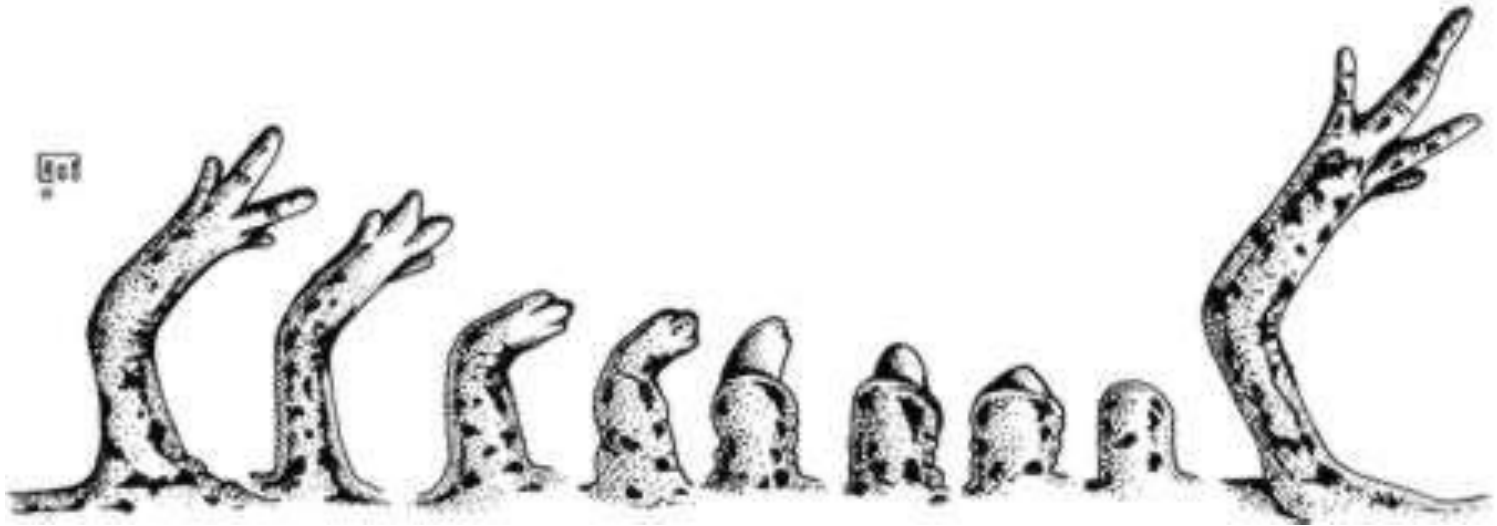
Explain...



What type of reproduction is this??? Explain...



What type of reproduction is this??? Explain...

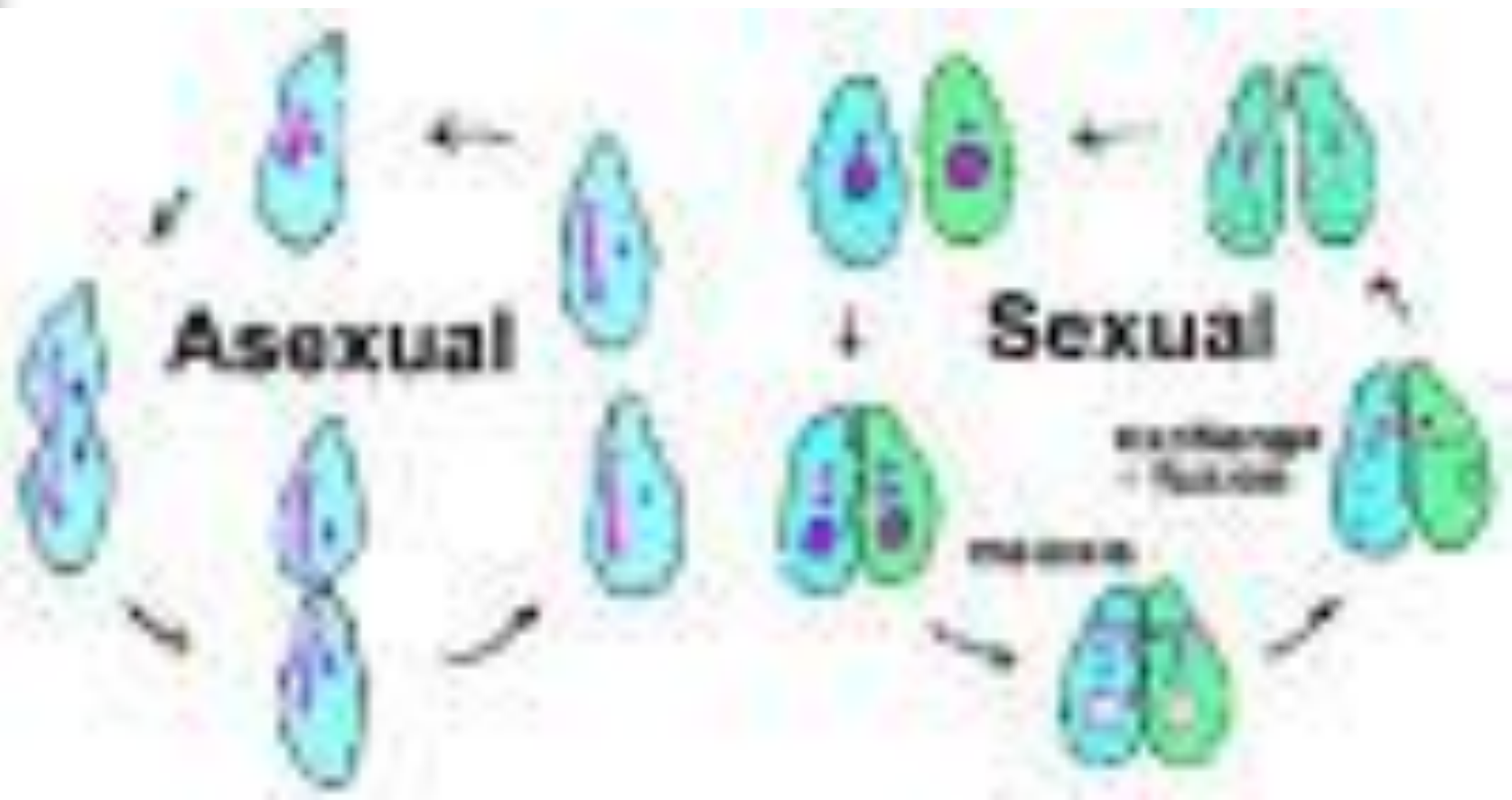


What type of reproduction is this??? Explain...



"Are we there yet?"

Asexual vs. Sexual





Video

- Please note: there are a limited number of headsets available in the classroom so you will need to be patient.
- If headphones are not available when you are, continue working on other parts of the assignment ...be sure and sign the headphone sign up sheet to keep your place in line.