

Advantages of Asexual and Sexual Reproduction

Use with textbook pages 64–67.

Identify whether the statement is an advantage of asexual reproduction or sexual reproduction.

1. requires only one parent

2. produces offspring that are unique

3. provides greater genetic variation

4. requires less energy to reproduce

5. takes offspring less time to mature

6. requires no energy to find a mate

7. produces offspring that are genetically identical to the parent

8. provides a fast and efficient way of producing large amounts of offspring

9. produces individuals that are able to adapt to changing environment

10. allows population to grow exponentially and outcompete other organisms for resources

11. provides an increased probability of surviving if there are changes in the environment because individuals are genetically different

Disadvantages of Asexual and Sexual Reproduction

Use with textbook pages 64–67.

Identify whether the statement is a disadvantage of asexual reproduction or sexual reproduction.

1. results in no genetic diversity _____
2. produces fewer offspring _____
3. takes offspring a longer time to mature _____
4. produces offspring that are genetic clones _____
5. takes a longer time for a population to grow _____
6. provides no genetic variation among the offspring

7. requires gametes to contact each other in order for offspring to form

8. requires parents to invest a lot of time and energy to raise offspring

9. provides limited ability to adapt to changing environmental conditions

10. means that finding a mate may expose individuals to predators and diseases

11. means that unfavourable environmental conditions can wipe out the entire population _____
12. means that searching for a mate can result in injury or death due to competition with other potential suitors _____
13. requires a long time for organisms to grow and develop to the stage where they can reproduce themselves _____
14. means that individuals are more vulnerable and susceptible to diseases and parasites because they are all clones and respond to the disease in the same way
