

1.4 Assessment

Match each term on the left with the best description on the right. Each description may be used only once.

Term	Description
1. ___ genetic variation	A. type of reproduction that requires one parent
2. ___ sexual reproduction	B. type of reproduction that requires two parents
3. ___ asexual reproduction	C. DNA sequences are different for each individual in a species

Circle the letter of the best answer for questions 4 to 10.

4. Asexual reproduction requires
 - A. two parents.
 - B. two gametes.
 - C. only one parent.
 - D. only one gamete.
5. Which of the following is an advantage of asexual reproduction?
 - A. it occurs really slowly
 - B. it allows the population to grow rapidly
 - C. it takes time for the offspring to mature before they can reproduce
 - D. it allows the parents to pass on 50% of their genetic material to their offspring
6. A lack of genetic diversity from asexual reproduction means that
 - A. all the gametes are clones of each other.
 - B. all the offspring are genetically identical to each other.
 - C. the offspring did not inherit any genetic materials from the parents.
 - D. the population have individuals with different combinations of DNA sequences.
7. A deadly fungal disease hit an apple orchard that was grown by asexual reproduction using grafting. What would you expect to happen to the rest of the crop if one apple tree was vulnerable to that disease?
 - A. All the apple trees would grow rapidly, producing more apples.
 - B. All the other apple trees would be resistant to the fungal disease.
 - C. All the other apple trees would adapt so that they could survive the disease.
 - D. All the other apple trees would be equally vulnerable to the disease and could be wiped out.