

Genetics

Name:

Meiosis and Mendel

Period:

Use Chapter 6, Section 3 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

fertilization meiosis round sex cells wrinkled

Meiosis and Mendel (p.192)

1. The steps in the process of _____ explain Mendel's results.
2. Read about Figure 5. For this example, what seed trait is dominant? _____
3. Read about Figure 5. For this example, what seed trait is recessive? _____
4. Read about Figure 5. How many genotypes are possible for the offspring? _____
5. Look at Figure 5. What step happens after meiosis to create offspring? _____

Meiosis and Inheritance (p.193)

6. If an organism reproduces sexually, _____ combine to make offspring.
- _____ 7. How much of an offspring's genetic material comes from its biological mother?
a. almost all b. about half c. about one-fourth d. almost none
- _____ 8. How much of an offspring's genetic material comes from its biological father?
a. almost all b. about half c. about one-fourth d. almost none
- _____ 9. In an animal cell, where is most of the genetic material?
a. in the cell membrane b. in the cell wall c. in the cytoskeleton d. in the nucleus
- _____ 10. Where does the DNA in an offspring's mitochondria come from?
a. the mother b. the father c. the environment d. food

