

## Genetics

Name: \_\_\_\_\_

### Meiosis and Mendel

Period: \_\_\_\_\_

Use Chapter 6, Section 3 of your textbook to answer the questions below.

#### 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

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



COOLCLIPS.COM