

MEIOSIS

Name:

Date:

Identify the choice that best completes the statement or answers the question.

1. Chromatids that are attached at the centromere are called what kind of chromatids?
 - a. mother
 - b. daughter
 - c. **sister**
2. Eukaryotic DNA molecules have
 - a. small amounts of protein at each end.
 - b. **large amounts of protein around which DNA is wound.**
 - c. small amounts of protein dispersed among them.
3. Division of eukaryotic cells into two identical cells is called
 - a. **mitosis**
 - b. growth
 - c. meiosis
4. Which of the following is NOT associated with meiosis?
 - a. **somatic cells**
 - b. sperm and egg
 - c. sexual reproduction
5. Chromosomes become visible during prophase of mitosis as a result of
 - a. chromatid duplication
 - b. uncoiling
 - c. **condensation**
6. When the chromosome is most condensed, which of the following is true?
 - a. Carbohydrates wind the DNA into clusters.
 - b. **Proteins are used to wind up the DNA.**
 - c. They are less susceptible to radiation.
7. The unique feature of HeLa cells that make them important for research is that...
 - a. they are limited in growth cycles.
 - b. they are identical to all other human cells.
 - c. **they are immortal cells and will grow in culture.**