

Name _____

Meiosis I vs. Meiosis II: The Great Chromosomal Divide

Short Answer

1. Explain the role of crossover events in meiosis I and their significance in creating genetic diversity.
2. How does the number of cells produced at the end of meiosis I differ from the number of cells produced at the end of meiosis II?
3. Describe the main difference in chromosome alignment between metaphase I and metaphase II.
4. Why is meiosis II essential in ensuring that each gamete is genetically unique?
5. How does the genetic material of the four haploid gametes produced in meiosis II compare to each other?

