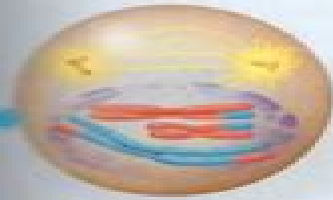
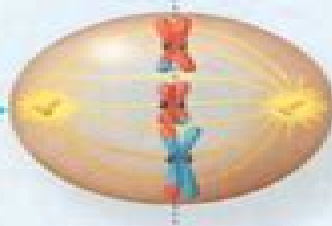


MEIOSIS II: Separates sister chromatids

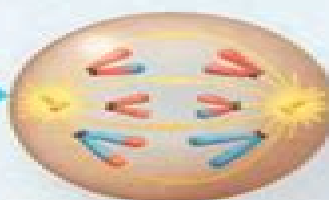
Prophase II



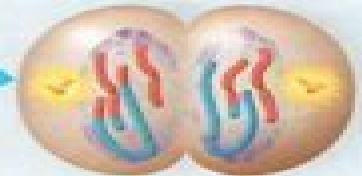
Metaphase II



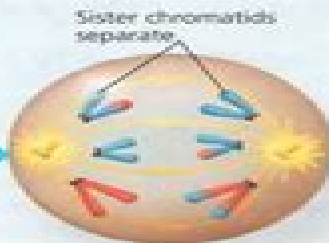
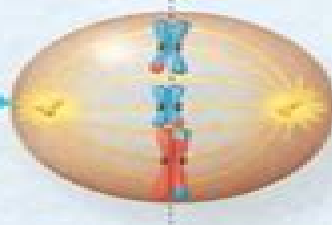
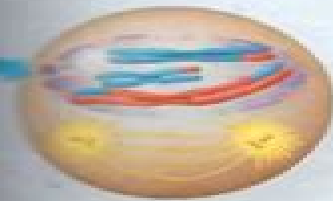
Anaphase II



Telophase II and Cytokinesis



During another round of cell division, the sister chromatids finally separate; four haploid daughter cells result, containing unduplicated chromosomes.



Prophase II

- Spindle apparatus forms.
- Unlike prophase II (not shown here), chromosomes, each still composed of two sister chromatids associated at the centromere, move toward the metaphase II plate.

Metaphase II

- The chromosomes are positioned at the metaphase plate as in mitosis.
- Because of crossing over in meiosis I, the two sister chromatids of each chromosome are not genetically identical.
- The kinetochores of sister chromatids are attached to microtubules extending from opposite poles.

Anaphase II

- Breakdown of proteins holding the sister chromatids together at the centromere allows the chromatids to separate. The chromatids move toward opposite poles as individual chromosomes.

Telophase II and Cytokinesis

- Nuclei form, the chromosomes begin decondensing, and cytokinesis occurs.
- The meiotic division of one parent cell produces four daughter cells, each with a haploid set of (unduplicated) chromosomes.
- The four daughter cells are genetically distinct from one another and from the parent cell.

MAKE CONNECTIONS

Look at Figure 12.7 and imagine the two daughter cells undergoing another round of mitosis, yielding four cells. Compare the number of chromosomes in each of those four cells, after mitosis, with the number in each cell in Figure 13.8, after meiosis. What accounts for this difference, even though mitosis also includes two cell divisions?



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Mitosis Diagram Identification

Yijin Wang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Mitosis Diagram Identification:

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In a global driven by information and connectivity, the energy of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Mitosis Diagram Identification**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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