

## Concept Development

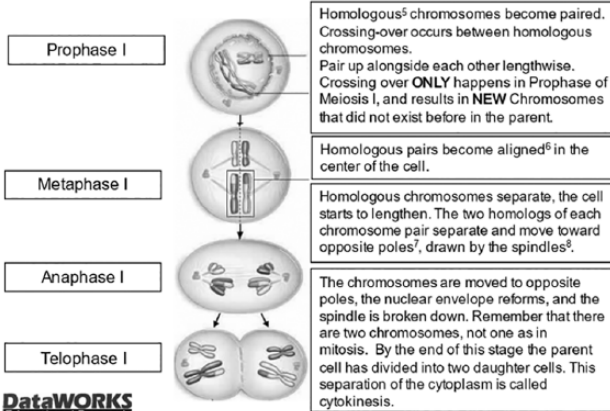
**Meiosis** is cell division in which the number of chromosomes in a diploid<sub>2</sub> cell is reduced by half following cell divisions.

- Meiosis results in having four daughter cells.
  - Each daughter cell<sub>3</sub> is a haploid<sub>4</sub> having only half the number of chromosomes as the original diploid cell.
- Meiosis is important to sexual reproduction.

How to remember the phases in order:

Prophase → Put  
 Metaphase → My  
 Anaphase → Arms  
 Telophase → Together

## First Phases of Meiosis



## CFU

How will you remember the phases in order? What is the difference between prophase and metaphase? How many cells are there at the end of the first phase of meiosis? How many chromosomes are there at the end of meiosis? How do you know? In your own words, what is meiosis? Meiosis is \_\_\_\_\_.

## Vocabulary

- <sup>2</sup> having two sets of chromosomes
- <sup>3</sup> (daughter cells) the pair of cells made by mitosis
- <sup>4</sup> having a single set of chromosomes
- <sup>5</sup> having the same relation, relative position, or structure
- <sup>6</sup> place or arrange in a straight line
- <sup>7</sup> opposite ends of a sphere
- <sup>8</sup> slender mass of small tubes formed when a cell divides

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Describe the process of meiosis.

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Concept Development for biology lesson on *phases of meiosis*. Shows how diagrams and text can be used to explain a concept. (High school)