CHAPTER 6 Gametes

BLM 2-28

Goal	•	Review	your	understandin	g of	gametes.
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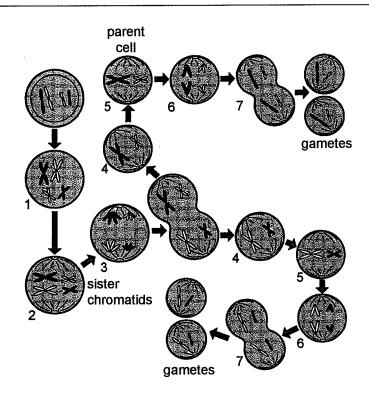
CHAPTER 6 Key Events in Meiosis

BLM 2-29

Goal • Review the steps of meiosis.

What to Do

Use the diagram to answer the questions that follow.



- 1. Each chromosome doubles itself, forming two identical copies, called sister chromatids.
 - (a) How many chromosomes are in diagram 1? _____ (b) How many chromatids? _
- 2. The doubled chromosomes come together in matching pairs in diagram 2. Where do they line up?
- 3. (a) The chromosomes separate in diagram 3. Where are they pulled?
 - (b) Are the chromosomes that have been pulled all the same or are they different? _____
- 4. The first division of meiosis has occurred, and the cell has formed two new cells (diagram 4). What are the contents of these cells?
- 5. In diagram 5, the chromosomes again line up along the centre of each new cell. How does this step differ from diagram 2?
- 6. In diagram 6, the sister chromatids separate and move to opposite ends of the cell. How is this stage of meiosis very similar to mitosis?
- 7. (a) The cells divide in diagram 7. How many new cells are formed by meiosis?
 - (b) Compared to the parent cell, how many chromosomes does a new cell have?

CHAPTER 5

Compare the Events of Meiosis and Mitosis

BLM 2-30

Goal • Use this page to compare the events of meiosis and mitosis.

What to Do

Study the diagrams of mitosis and meiosis in your student book. Use words and/or labelled drawings to compare the following events.

Meiosis I	Mitosis Prophase (early and late)			
Prophase I				
Metaphase I	Metaphase			
Anaphase I	Anaphase			
Telophase I	Telophase			
Interkinesis	Cytokinesis			
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BLM 2-30 continued

Meiosis II	Mitosis
Prophase II	Prophase (early and late)
Metaphase II	Metaphase
Anaphase II	Anaphase
Telophase II	Telophase
Cytokinesis	Cytokinesis