

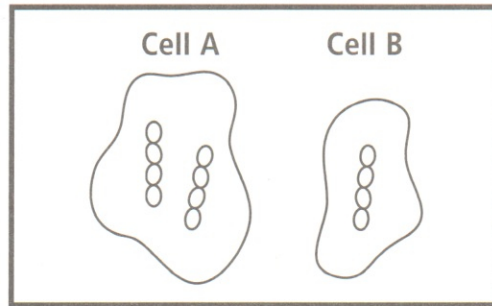
Name _____

Date _____

Lesson 1—How Does Cell Division Affect Growth?

1. Inquiry Skill Practice—Observe

Observe the drawings. Each represents the nucleus of a fruit fly cell. What observation can help you know which cell is a zygote and which is a gamete?



2. Use Vocabulary

Complete each sentence with the correct term from the box.

We grow as our cells divide through _____.

The stages of an organism's life make up its _____.

life cycle
mitosis

3. Reading Skill Practice—Sequence

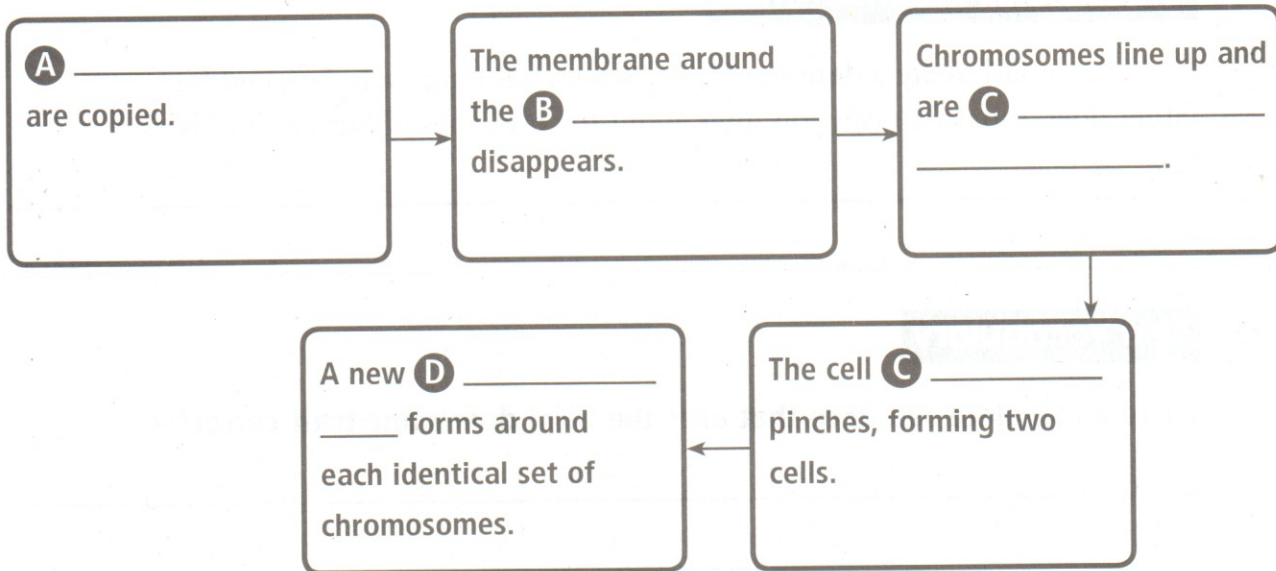
Read the selection. Then list the sequence of events that occurs during the life cycle of a fruit fly.

The fruit fly life cycle begins when an adult female fly lays an egg. After several days, a caterpillar-like larva hatches. The larva encloses itself in a capsule. At this stage, the fruit fly is called a pupa. It undergoes metamorphosis and becomes an adult. Adults produce gametes and the cycle begins again with fertilization.

Name _____

4.  **Sequence**

Complete the graphic organizer.



5. **Critical Thinking and Problem Solving**

Clare has found a caterpillar in her back yard. She wants to observe the life cycle of a butterfly. What should Clare do to observe the life cycle? What part of the butterfly's life cycle will she miss?

Name _____

Date _____

Lesson 2—How Are Characteristics Inherited?

1. Inquiry Skill Practice—Infer

Long eyelashes are a dominant trait. Steven has long eyelashes, and his father does, too. What can you infer about the eyelashes of Steven's mother?

2. Use Vocabulary

Write a complete sentence that uses the term **dominant trait** correctly.

Write a complete sentence that uses the term **gene** correctly.

3. Reading Skill Practice—Cause and Effect

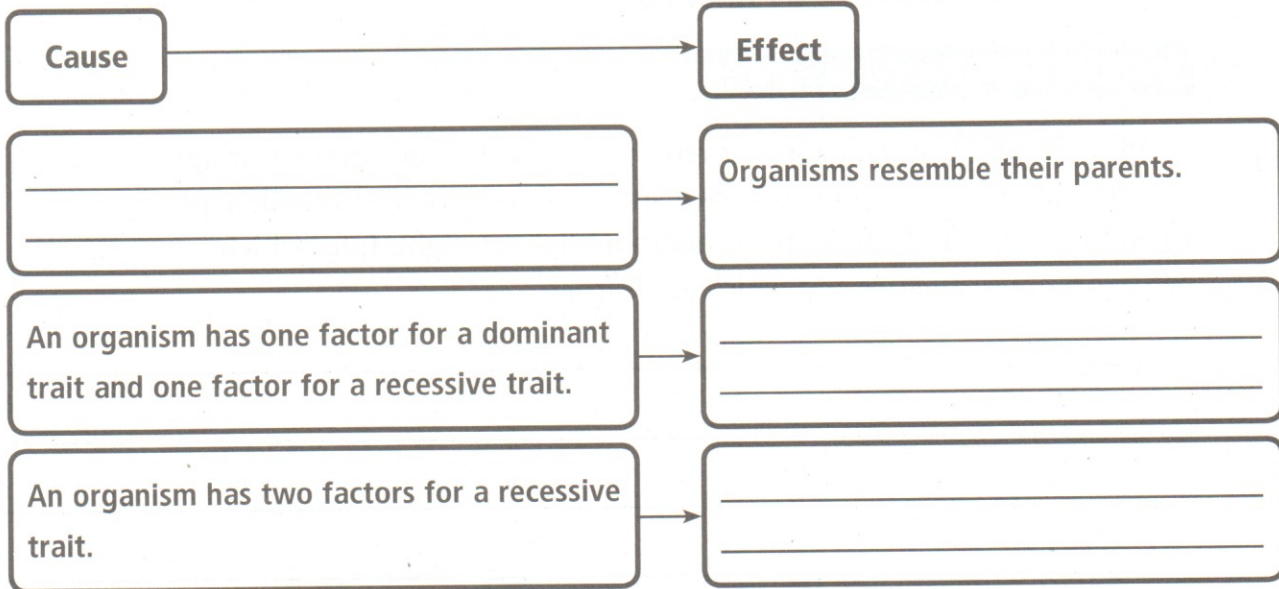
Read the selection. Describe the cause and effect of the recessive trait.

Brittany is left-handed. Both of her parents and her two brothers are right-handed. Right-handedness is a dominant trait, and left-handedness is a recessive trait. Brittany inherited two recessive factors from her parents. Both parents have hidden factors for left-handedness.

Name _____

4.  **Cause and Effect**

Complete the graphic organizer.



5. **Critical Thinking and Problem Solving**

Mr. and Mrs. Diego speak Spanish and English. They both have long eyelashes and brown eyes. Mrs. Diego is right-handed and plays basketball. Mr. Diego is left-handed and plays piano. Under what circumstances could they have a blue-eyed, left-handed child?
