

## Meiosis

## Answer Key

**Vocabulary:** anaphase, chromosome, crossover, cytokinesis, diploid, DNA, dominant, gamete, genotype, germ cell, haploid, homologous chromosomes, interphase, meiosis, metaphase, mitosis, ovum, phenotype, prophase, recessive, sister chromatid, sperm cell, telophase, zygote

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

*[Note: The purpose of this question is to activate prior knowledge and get students thinking. Students are not expected to know the answer to the Prior Knowledge Question.]*

1. During **mitosis**, a single cell divides to produce two daughter cells. What must happen in the original cell so that each of the daughter cells has a complete set of **chromosomes**?

*The DNA (or chromosomes) must be duplicated before cell division.*

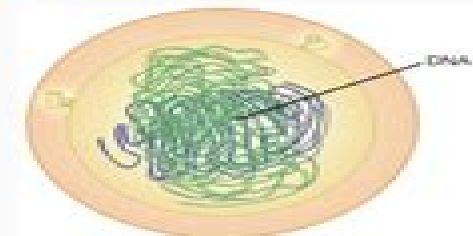
2. During sexual reproduction, two sex cells fuse to create a fertilized cell with a complete set of chromosomes. What must be true about the number of chromosomes in each sex cell?

*The sex cells will have half the number of chromosomes as the fertilized cell.*

### Gizmo Warm-up

**Meiosis** is a type of cell division that results in four daughter cells with half as many chromosomes as the parent cell. These daughter cells mature into **gametes**, or sex cells. In the *Meiosis* Gizmo, you will learn the steps in meiosis and experiment to produce customized sex cells and offspring.

On the STEPS tab, click **Male**. You are looking at a **germ cell**, or a cell that will undergo meiosis to become gametes.



1. Read the description of **interphase** at the bottom of the Gizmo. What happens to the cell at the beginning of interphase? *The cell grows and synthesizes mRNA and proteins.*

2. Click on the **DNA** in the nucleus of the cell. Describe what happens.

*The DNA is copied (more DNA appears) and the cell grows some more.*

3. Why is it necessary for the cell to grow and duplicate its DNA before the start of meiosis?

*Answers will vary. [The cell grows so that it has enough materials to undergo replication and duplicates its DNA so the daughter cells will receive the correct amount.]*

# Neo Sci Meiosis Simulation Answer Key

**Cathrine M. Monson**



**Neo Sci Meiosis Simulation Answer Key:**

**Mitosis & meiosis LAB 3** [ Cathrine M. Monson, 2004\*

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