

# Unit 5 Heredity AP Biology Exam Review

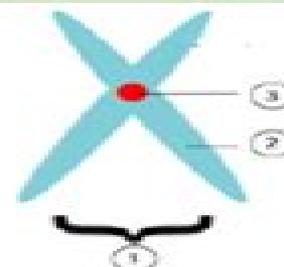
## Meiosis

1) Label the parts of the chromosome to the right.

1) chromosome

2) chromatids

3) centromere



2) Where does meiosis take place? What does the process of meiosis create?

Meiosis takes place in the reproductive organs of the organism. During meiosis one cell divides twice to form four daughter cells. These four daughter cells only have half the number of chromosomes of the parent cell - they are haploid. Meiosis produces our sex cells or gametes (eggs in females and sperm in males).

3) What are the names of the steps of meiosis?

### Meiosis I

The first meiotic division is a reduction division (diploid → haploid) in which homologous chromosomes are separated

- **P-I:** Chromosomes condense, nuclear membrane dissolves, homologous chromosomes form bivalents, crossing over occurs
- **M-I:** Spindle fibers from opposing centrosomes connect to bivalents (at centromeres) and align them along the middle of the cell
- **A-I:** Spindle fibers contract and split the bivalent, homologous chromosomes move to opposite poles of the cell
- **T-I:** Chromosomes decondense, nuclear membrane may reform, cell divides (cytokinesis) to form two haploid daughter cells

### Meiosis II

The second division separates sister chromatids (these chromatids may not be identical due to crossing over in prophase I)

- **P-II:** Chromosomes condense, nuclear membrane dissolves, centrosomes move to opposite poles (perpendicular to before)
- **M-II:** Spindle fibers from opposing centrosomes attach to chromosomes (at centromere) and align them along the cell equator
- **A-II:** Spindle fibers contract and separate the sister chromatids, chromatids (now called chromosomes) move to opposite poles
- **T-II:** Chromosomes decondense, nuclear membrane reforms, cells divide (cytokinesis) to form four haploid daughter cells

The outcome of meiosis is the production of four haploid daughter cells

- These cells may all be genetically distinct if crossing over occurs in prophase I (causes recombination of sister chromatids)

## Mitosis vs Meiosis

4) Fill in the table below comparing mitosis and meiosis:

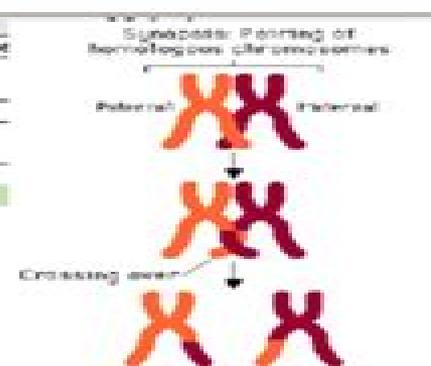
	Mitosis	Sex of
Produces what types of cells?	Somatic cells (body cells)	
How many cells made at the end of the process?	2	
Are the ending cells haploid or diploid?	diploid	
Number of chromosomes at the end (human)?	46	

## Meiosis, Genetic Diversity, and Fertilization

5) What is crossing over? When does it occur? Why is it important for genetic variation?

Crossing over is a process that happens between homologous chromosomes in order to increase genetic diversity. During crossing over, part of one chromosome

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# Biology Heredity Activity 5 Answers

**Stephanie Zinn**



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Nick Tarasen is a widely published science writer and educator  
Technology, New Mexico. Institute of Mining and Technology, 1893

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