

AP Biology Chapter 13 (Meiosis)

alleles - different versions of genes (are on same part of chromosome for different parents)

Locus - where a gene is located on a chromosome

somatic - any cell except sex cells

homologous chromosomes - members of a pair of chromosomes; same size, same banding pattern, same centromere placement, same genes (matching chromosome from parents)

autosomes - the other 44 chromosomes, not including sex chromosomes

haploid cells - cells that have 1 of each type of chromosome; called egg and sperm

diploid - cells that have 2 of each chromosome (somatic cells)

gamete - reproductive cells which fuse in fertilization; (sperm and egg); carry hereditary traits to the offspring; develop from germ cells in the gonads (ovaries and testes)

zygote - cell resulting from union of egg and sperm

karyotype - lining up of chromosomes

How many chromatids are present in metaphase II in a cell undergoing meiosis from an organism in which $2n=24$? - 24

synapsis - when the two homologous pairs come together resulting in a tetrad

crossing over...(and what is the section called) - when homologous pairs synapse, they switch parts of their chromatids at points called chiasmata

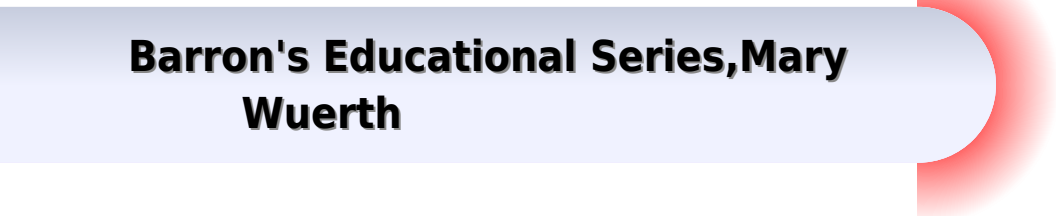
Prophase I - chromosomes begin to condense, homologous pairs loosely pair up; crossing over; centrosomes movement, spindle formation and nuclear envelop breakdown; microtubules from one pole attach to the kinetochores of one pair of tetrads (two chromatids are attached to one kinetochore)

Metaphase I - arrange in metaphase plate; their lining up provides genetic variation (mother's chromosomes may be on one side along with a set of father's chromosomes)

Anaphase I - breakdown of proteins holding homologous pairs together; homologs move towards opposite poles; cohesions break down but centromere holds together

Ap Biology Chapter 13 Study Guide Answers

**Barron's Educational Series, Mary
Wuerth**



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