Name	

Date

# Study Guide 6.1: Chromosomes and Meiosis

#### **KEY CONCEPT**

Gametes have half the number of chromosomes that body cells have.

#### **VOCABULARY**

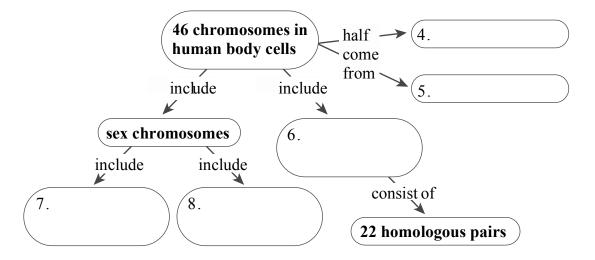
somatic cell	autosome	fertilization
gamete	sex chromosome	diploid
homologous chromosome	sexual reproduction	haploid
meiosis		

## MAIN IDEA: You have body cells and gametes.

- 1. What are the two major groups of cell types in the human body?
- 2. Where are gametes located?
- 3. How many chromosomes are in a typical human body cell?

### MAIN IDEA: Your cells have autosomes and sex chromosomes.

Fill in the concept map below to summarize what you know about chromosomes.



}.Wha	at is the sex of a person with two	A chromosomes:
0. W	hich chromosome carries the fe	west number of genes?
	N IDEA: Body cells are dipl	·
1. W	hat happens to the nuclei of the e	gg and sperm during fertilization?
2. W	hat type of cells are haploid?	
3. W	That is the haploid chromosome nu	umber in humans?
— 4. Но	ow many autosomes are present in	n each human gamete? How many sex chromosomes?
	· · · · · · · · · · · · · · · · · · ·	n each human gamete? How many sex chromosomes?  mmarize the differences between mitosis and meiosis.
	· · · · · · · · · · · · · · · · · · ·	
	omplete the following table to sur	mmarize the differences between mitosis and meiosis.
	omplete the following table to sur	mmarize the differences between mitosis and meiosis.
	omplete the following table to sur	mmarize the differences between mitosis and meiosis.  Meiosis  Makes genetically unique cells
	Mitosis  Makes diploid cells	mmarize the differences between mitosis and meiosis.  Meiosis  Makes genetically unique cells
  5. Ca <b>Voc</b> a	Mitosis  Makes diploid cells	Meiosis  Makes genetically unique cells  Involved in sexual reproduction