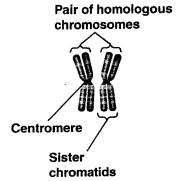
	Name:		
	Period:		
Genetics Fill-in Notes 6.1 Chromosomes and Meiosis Objectives: Contact Key Concept	have half the number of chromosomes that a body cell have.		
1. What is the difference between body cells and sex cells?			
	Body cells are also called cells		
	cells (a type of STEM cell)		
	develop into O Germ cells are located in the		
	and		
	o Gametes are cells: egg or		
	sperm.		
	o Gametes have that can be		
	passed to offspring.		
<i>y</i>			
	,		
2. What is a Chromosome?	DNA forms when it is		
	time for the cell to divide		
	Chromosomes are rod-shaped structures made up of and		
	that are tightly coiled up.		
3. What does a chromosome look like?			
(describe it's structure)	Each chromosome have two		
	halves connected by a		
sister chromatids	Each half is called a		
centromere	and both are called sister chromatids.		

4. How many chromosomes does each organism have?

		Turner and the second second
	Organism	Number of chromosomes
	pea plant	14
	sun flower	34
	cat	38
	puffer fish	42.
A	human	46
	dog	78

5.	What	are	Homo	ogous	chromo	osomes?
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•	Each species has a characteristic number of			
	in each cell.			
•	Example: A cat as chromosomes while a dog			
	has chromosomes			
НО	W MANY CHROMOSOMES DOES A HUMAN HAVE?			
•	Your body cells have pairs of			
	chromosomestotal			
•	The pairs of chromosomes are: the same shape/size			
	and general genetic information.			
_	For each pair, one			
•	chromosome comes from each			
	chromosome comes from each			
	A			
•	Chromosome pairs are			
	: Chromosomes that do not			
	determine the sex.			
•	chromosomes, X and Y, determine the			
	in mammals.			
	Females are			
	Males are			
Ql	JESTION: Looking at the picture on the			
Ро	werPoint, what is the gender of this			

human?_____

7. What does Diploid and Haploid Mean?	• (n) cells have one copy of
	every chromosome
	• are haploid
	Human Gametes have
	and 1 chromosome.
	Body cells are; gametes are
	between egg and sperm
	occurs in sexual reproduction and produces diploid
	cells
	•(2n) cells have two copies of
	every chromosomes
	 Body cells are diploid in human, having 46 chromosomes.
	 Half chromosomes come from each parent
8. What are the similarities and differences between Mitosis and Meiosis?	 Mitosis and Meiosis are both types of division and are both
	followed by
	Mitosis makes more somatic cells.
	 Meiosis makes cells from diploid cells Meiosis occurs in cells and produces
	Chromosome numbers must be
X N 1 1 note acadions	in animals.
A HOC NOVE DUGINOUS	 Many plants have more than two copies of each chromosomes.
XAdd note guations - create Socrative of Exit	cinomosomes.
21.6	
FILL OUT THE COMPARISON CH	HART ONE THE NEXT PAGE

			MITOSIS	COMPARING
				NG MITOSIS +
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