Name	Date	Period

Chapter 6 Concept Review

Directions: Ans	wer the following ques	tions using	your notes and to	extbook
1	Cells- body cells.	Make up n	nost of your	tissues and organs.
2	Cells- cells in your	reproductive	e organs, the ova	aries and testes, can develop
into	(called sex cells	s) and form	egg and sperm c	ellsj
	fer from each other bed ve different genes.	cause of wa	y genes are	, not
4. Your body has	s pairs of chrome	osomes		
5	chromoso	me pairs 1-	22 are called auto	osomes (are homologous)
6 chro	omosomes- pair of chro	omosomes		
7	reproduction inv	olves fusion	of two gametes	
8 and	l only	have half u	sual number of c	hromosomes.
9. Diploid and Ha	aploid cells			
a. Body ce	ells are	(_ copies of each	chromosome)
b. Gamete	es are	(have	copy of e	ach chromosome)
10. Meiosis prod	uces haplo	oid cells fror	n dip	loid cell
11. Mendel laid t	he groundwork for		·	
12. Mendel made	e three key decisions in	n his experi	nents	
a. Control	over	_		
b. Use of	pla	nts		
c. Observa	ation of "either-or"		_ (only appear tw	o alternate forms)
13. Two other ke	y conclusions collectiv	ely called th	e law of	·
a. Organis	sms inherit two copies	of each gen	e, one from each	۱
b. Organis	sms donate only one co ene segregate, or sepa	opy of each rate, during	gene in their gamete formatic	(two copies

	a "piece" of DNA that provides a set of instructions to a cell to make a ain protein.						
15. `	You have alleles for each gene`						
	a means two of same allele						
	b two different alleles						
16	refers to genetic makeup of a specific set of genes						
17	physical characteristics of organism (white or purple flowers)						
18	alleles- allele that is expressed when two different alleles or two						
dom	inant alleles are present (use letter to represent)						
19	alleles- only expressed if have two copies of recessive present (use						
	letter to represent)						
20. 1	Monohybrid cross involves one trait a. Homozygous dominant X Homozygous recessive genotypic ratio =% white flowers phenotypic ratio =% Ff b Heterozygous X Heterozygous genotypic ratio =: phenotypic ratio =: c. Heterozygous X Homozygous recessive genotypic ratio =: phenotypic ratio =: phenotypic ratio =:	f					
	The law of independent states that allele pairs separate pendently of each other during meiosis						
22	- the likelihood that a particular event will happen						
23. 9	Sexual reproduction creates gene combinations						
24. 9	Sexual reproduction creates unique combination of						
25	exchange of chromosome segments between ologous chromosomes during Prophase I of Meiosis I						