Period	Date	

XX(

X-LINKED INHERITANCE

XX ()

Pedigree Notes

Pedigrees

A **pedigree** is...

On a pedigree:

- Squares = _____
- Circles = _____

Types of Inheritance

- 1.
- 4.
- 2. _____
- 5. _____
- 3. _____

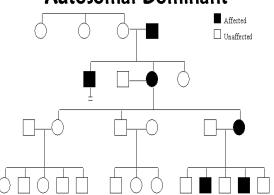
Autosomal Dominant Inheritance

Autosomal = NOT on the

A single _____ of an _____ is enough to

cause ______ of a _____

Autosomal Dominant



Rules for Autosomal Dominant Inheritance

1.	Every	person sho	uld have at least	affected	
2.		and	should be	often affe	ected
3.	An	person has at	least a chance		the
		allele to each			
Exar	mples of Aut	osomal Domina	nt Traits		
•		(caused by a) causes a p	erson to	very
		and	before they can		_
•			_: the	s	ystem begins to
			_ around the age of		
Auto	somal Rece	ssive Inheritanc	e		ln '
Autos	omal recessive	::	alleles result in a		nal Recessive
	bei	ing		0	Carrier
Rule	s for Autosc	omal Recessive	Inheritance		
1.	An	person may _	have		
		parents			
	Parents	would be	of the		
2.	Affects both				
3.	Can	to	generations		
4.		paren	ts will have	children	of the time
Exar	nples of Aut	osomal Recessi	ve Traits		
•		is a condition whi	ch involves the	of	in the
			and		

•	is a ge		enetic	in which there is a	
	of	de	posits in the	which eventually μ	proves to
be _					
Codomin	nant Inheritar	ice Example: Sic	kle Cell Anemia		
Sickle cell a	anemia is a	disorder	in which there is a	in the	
	, an impor	tant	_ in		
• An ir	ndividual	for sickle ce	ells suffers from	to important	
	,	, and	usually	prematurely	
• An ir	ndividual	for	and	cells does not	
	fro	om the full	, but some		
• In ce				cells has an prefers ""	blood
C	If some of the	cel	ls are	, that person is less likely	to
	become a				
C	This is called _				
X-Linked	Recessive I	nheritance	I	—	
In X-linked	recessive inheri	<u>tance,</u> a	allele on the	1 2	\neg
		can lead to a	п		
	,	, or	III		

Rules for X-Linked Recessive Inheritance

1.		_ are more	than	(ratio)
2.	Affected	will transn	nit the	to all	, but not to
3.	Homozygous		can a	rise only from mating	in which the
		_ is	and the	is	or a
X-Lir	nked Dominan	t Inheritance			
In <u>X-li</u>	nked dominant inl	neritance, a		ı	1 2
		on the			
	, or	_ can lead to a	,	1 2 3 4 5 6 IV	7 8 9 10 11 12 13 14
Rule	s for X-Linked	Dominant Inhe	eritance	Pedigree 5. X-linked dominant inh	eritance.
1.		_ as many	are affecte	ed as	_
2.	Usually	the childre	n of an affected	will be	,
	regardless of the				
3.		_ of the	of an affected	lv	vill be
		_, but	of the		
Exan	nple for X-Link	ked Dominant T	raits		
			can lead	to	,
particu	ularly in the		()