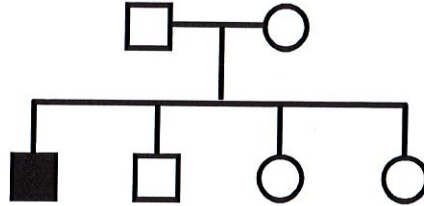


GENETICS PRACTICE 4: PEDIGREES

PEDIGREE #1



Could this trait be inherited as a simple...

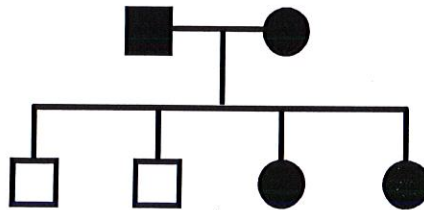
- a. autosomal recessive?
- b. autosomal dominant?
- c. X-linked recessive?
- d. X-linked dominant?
- e. Y-linked trait?

YES NO
 YES NO
YES NO
 YES NO
 YES NO

If "YES", then suggested genotypes of

<u>father</u>	x	<u>mother</u>
<u>Aa</u>		<u>Aa</u>
_____	x	_____
<u>X^AY</u>	x	<u>X^AX^a</u>
_____	x	_____
_____	x	_____

PEDIGREE #2



Could this trait be inherited as a simple...

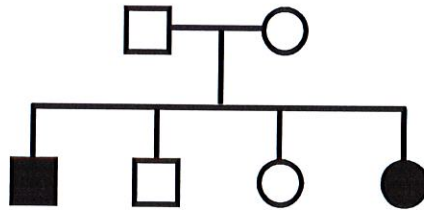
- a. autosomal recessive?
- b. autosomal dominant?
- c. X-linked recessive?
- d. X-linked dominant?
- e. Y-linked trait?

YES NO
YES NO
 YES NO
YES NO
 YES NO

If "YES", then suggested genotypes of

<u>father</u>	x	<u>mother</u>
_____		_____
<u>Aa</u>	x	<u>Aa</u>
_____	x	_____
<u>X^AY</u>	x	<u>X^AX^a</u>
_____	x	_____
_____	x	_____

PEDIGREE #3



Could this trait be inherited as a simple...

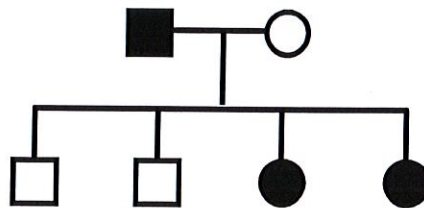
- a. autosomal recessive?
- b. autosomal dominant?
- c. X-linked recessive?
- d. X-linked dominant?
- e. Y-linked trait?

<u>YES</u>	NO
YES	<u>NO</u>
YES	<u>NO</u>
YES	<u>NO</u>
YES	<u>NO</u>

If "YES", then suggested genotypes of

<u>father</u>	x	<u>mother</u>
<u>Aa</u>	x	<u>Aa</u>
_____	x	_____
_____	x	_____
_____	x	_____
_____	x	_____

PEDIGREE #4



Could this trait be inherited as a simple...

- a. autosomal recessive?
- b. autosomal dominant?
- c. X-linked recessive?
- d. X-linked dominant?
- e. Y-linked trait?

<u>YES</u>	NO
<u>YES</u>	NO
<u>YES</u>	NO
<u>YES</u>	NO
YES	<u>NO</u>

If "YES", then suggested genotypes of

<u>father</u>	x	<u>mother</u>
<u>aa</u>	x	<u>Aa</u>
<u>Aa</u>	x	<u>aa</u>
<u>X^aY</u>	x	<u>X^AX^a</u>
<u>X^AY</u>	x	<u>X^aX^a</u>
_____	x	_____