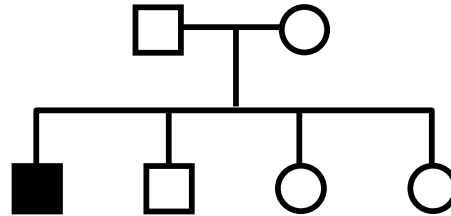


GENETICS PRACTICE 4: PEDIGREES

PEDIGREE #1



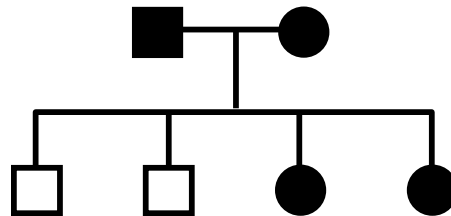
Could this trait be inherited as a simple...

- | | | |
|-------------------------|--------------------------------------|-------------------------------------|
| a. autosomal recessive? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| b. autosomal dominant? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| c. X-linked recessive? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| d. X-linked dominant? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| e. Y-linked trait? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |

If "YES", then suggested genotypes of father mother

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

PEDIGREE #2



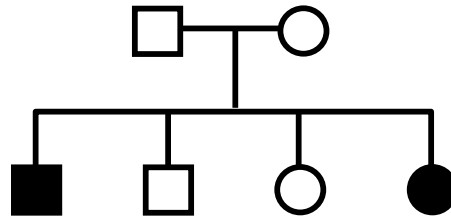
Could this trait be inherited as a simple...

- | | | |
|-------------------------|--------------------------------------|-------------------------------------|
| a. autosomal recessive? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| b. autosomal dominant? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| c. X-linked recessive? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| d. X-linked dominant? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| e. Y-linked trait? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |

If "YES", then suggested genotypes of father mother

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

PEDIGREE #3



Could this trait be inherited as a simple...

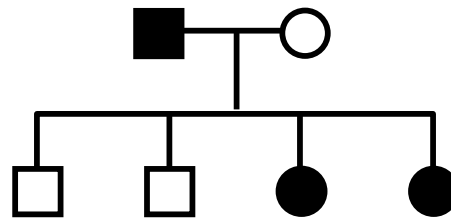
- a. autosomal recessive?
- b. autosomal dominant?
- c. X-linked recessive?
- d. X-linked dominant?
- e. Y-linked trait?

<input checked="" type="radio"/>	YES	NO
<input type="radio"/>	YES	<input checked="" type="radio"/>
<input type="radio"/>	YES	<input checked="" type="radio"/>
<input type="radio"/>	YES	<input checked="" type="radio"/>
<input type="radio"/>	YES	<input checked="" type="radio"/>

If "YES", then suggested genotypes of father mother

<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?

<input checked="" type="radio"/>	YES	NO
<input checked="" type="radio"/>	YES	NO
<input checked="" type="radio"/>	YES	NO
<input checked="" type="radio"/>	YES	NO
<input type="radio"/>	YES	<input checked="" type="radio"/>

If "YES", then suggested genotypes of father mother

<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	_____