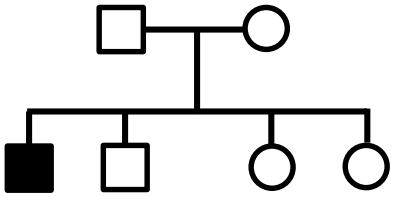
**Name: _____** **Date: _____**

**Genetics Practice 6: Pedigrees**

*Analyze the patterns of inheritance that are possible with the given phenotypes.*

Pedigree #1:



| | | | | If "Yes," Suggested Parental Genotypes ♂ x ♀ |
|---|---|---|---|---|
| a. | autosomal recessive? | YES | NO | _____ x _____ |
| b. | autosomal dominant? | YES | NO | _____ x _____ |
| c. | X-linked recessive? | YES | NO | _____ x _____ |
| d. | X-linked dominant? | YES | NO | _____ x _____ |
| e. | holandric trait? (Y-linked) | YES | NO | _____ x _____ |

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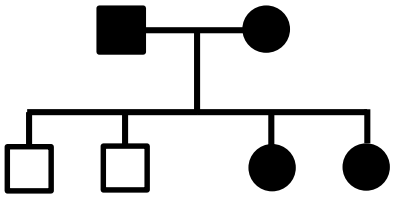
Pedigree #2:



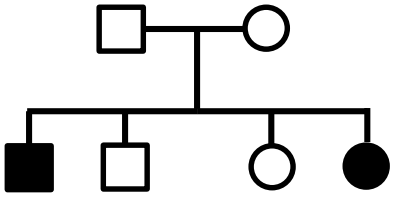
| | | | | If "Yes," Suggested Parental Genotypes ♂ x ♀ |
|---|---|---|---|---|
| a. | autosomal recessive? | YES | NO | _____ x _____ |
| b. | autosomal dominant? | YES | NO | _____ x _____ |
| c. | X-linked recessive? | YES | NO | _____ x _____ |
| d. | X-linked dominant? | YES | NO | _____ x _____ |
| e. | holandric trait? (Y-linked) | YES | NO | _____ x _____ |

*Activity modified from: Kim B. Foglia*

**Name:** _____ **Date:** _____

**Genetics Practice 6: Pedigrees**

Pedigree #3:



| | | | | If "Yes," Suggested Parental Genotypes ♂ x ♀ |
|---|---|---|---|---|
| a. | autosomal recessive? | YES | NO | _____ x _____ |
| b. | autosomal dominant? | YES | NO | _____ x _____ |
| c. | X-linked recessive? | YES | NO | _____ x _____ |
| d. | X-linked dominant? | YES | NO | _____ x _____ |
| e. | holandric trait? (Y-linked) | YES | NO | _____ x _____ |

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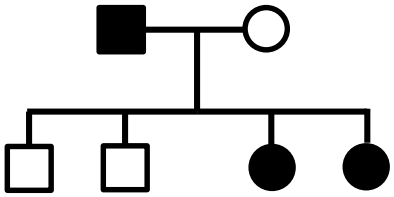
Pedigree #4:



| | | | | If "Yes," Suggested Parental Genotypes ♂ x ♀ |
|---|---|---|---|---|
| a. | autosomal recessive? | YES | NO | _____ x _____ |
| b. | autosomal dominant? | YES | NO | _____ x _____ |
| c. | X-linked recessive? | YES | NO | _____ x _____ |
| d. | X-linked dominant? | YES | NO | _____ x _____ |
| e. | holandric trait? (Y-linked) | YES | NO | _____ x _____ |

*Activity modified from: Kim B. Foglia*