

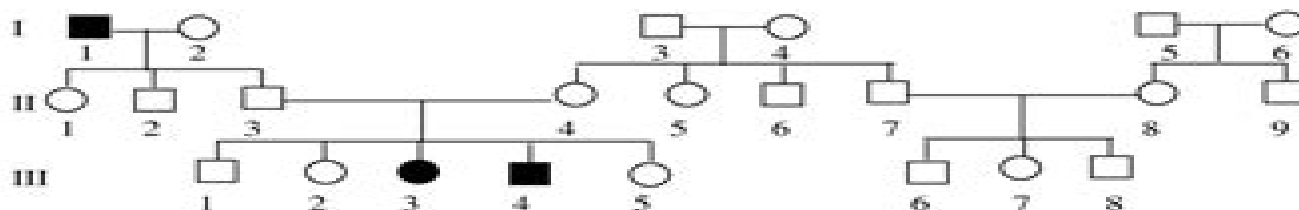
Genetics Pedigree Worksheet
Biology 520

Name _____

A family tree of sorts is called a pedigree. The symbols used for a pedigree are:

- female, unaffected
- female, affected
- male, unaffected
- male, affected

Siblings are placed in birth order from left to right and are labeled with Arabic numerals. Each generation is labeled with a Roman numeral. Therefore, the male exhibiting the trait in the pedigree below in the bottom, center would be identified as III-4.



Try to identify the genotypes of all of the individuals above.

1. Is this trait dominant or recessive? Explain your answer.
2. Could you have known the genotype of II-3 and II-4 before they had children? What gave you the essential information to decide that they were heterozygous?
3. Brown eyes are a dominant eye-color allele and blue eyes are recessive. A brown-eyed woman whose father had blue eyes and whose mother had brown eyes marries a brown-eyed man whose parents are also brown-eyed. They have a son who is blue-eyed. Please draw a pedigree showing all four grandparents, the two parents, and the son. Indicate which individuals you are certain of their genotype and where there are more than one possibility.

Genetic Challenge Puzzle Answer Key

Thomas Griffiths



Genetic Challenge Puzzle Answer Key:

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