

Pedigree Analysis: Albinism

Name: _____

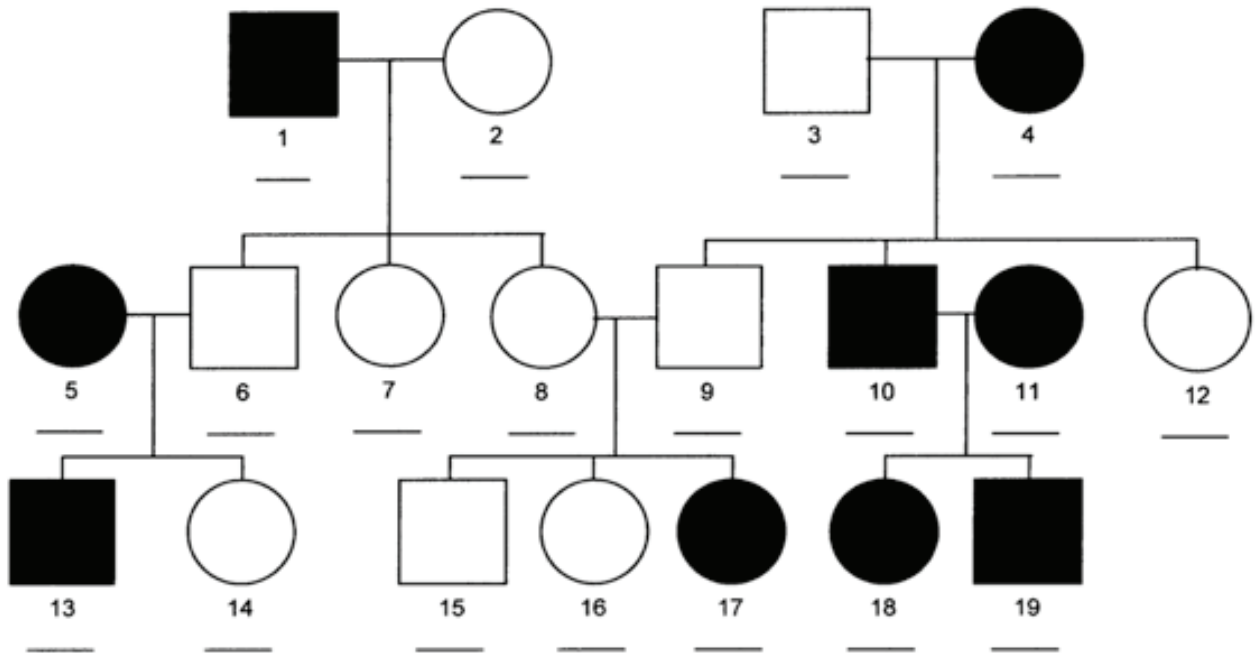
Making observations: To determine the mode of transmission, make observations and assign possible genotypes below each symbol.

Making a **claim**: This trait appears to be _____

 (mode of transmission)

Citing **evidence**: I know this because _____

Explain your **reasoning**: The evidence supports my claim because _____



Karyotype & Gene Map Analysis: Albinism

Name: _____

Making observations: To determine the loci of the genes that may possess a mutation that leads to albinism, make observations of the karyotype below. Circle the locus for each gene and label it with the gene's code.

Remember the p arm of the chromosome is above the centromere and the q arm is below the centromere.

Gene TYR: locus 11q14.3

Gene OCA2: locus 15q13.1

Gene TYRP-1: locus 9p23

Gene SLC45A2: locus 5p13.2

Making a *claim*:

Are any of these genes linked?

YES NO NOT ENOUGH INFO

(circle one)

Citing *evidence*: I know this because _____

Explain your *reasoning*: The evidence supports my claim because _____

Write an explanation below explaining how a person can receive this trait based on your claim, evidence, and reasoning.

