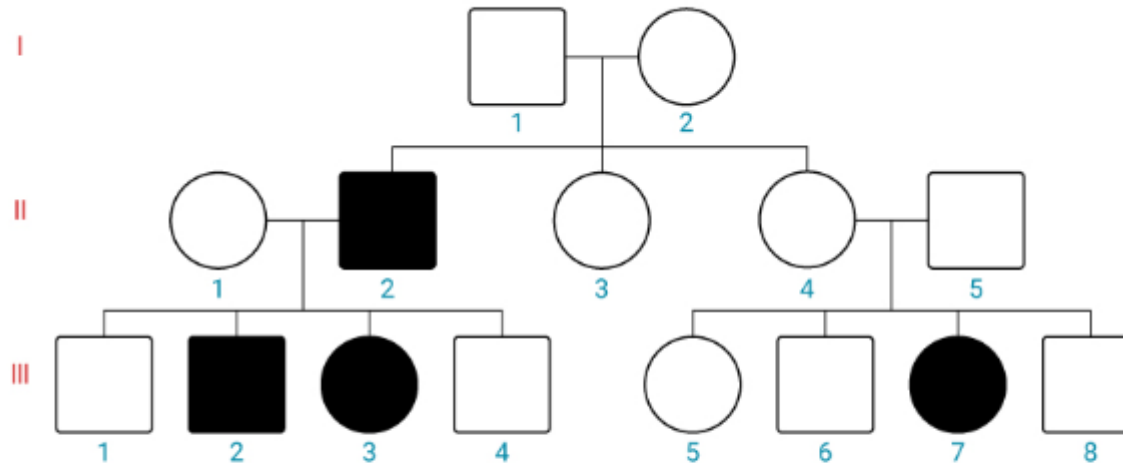


Select the best choice from the drop-down menu.

The following image is a pedigree chart showing the inheritance of albinism, a genetic disorder resulting in the lack of melanin in skin, hair, and eyes. The males with albinism in this chart are

1. II(2) and III(2) ✓ ▼



1. II(2) and III(2)

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Select the best choice from the drop-down menu.

If the gene responsible for a trait is not located on the X or Y chromosome, the trait is said to be

1. autosomal ✓ ▼.

1. autosomal

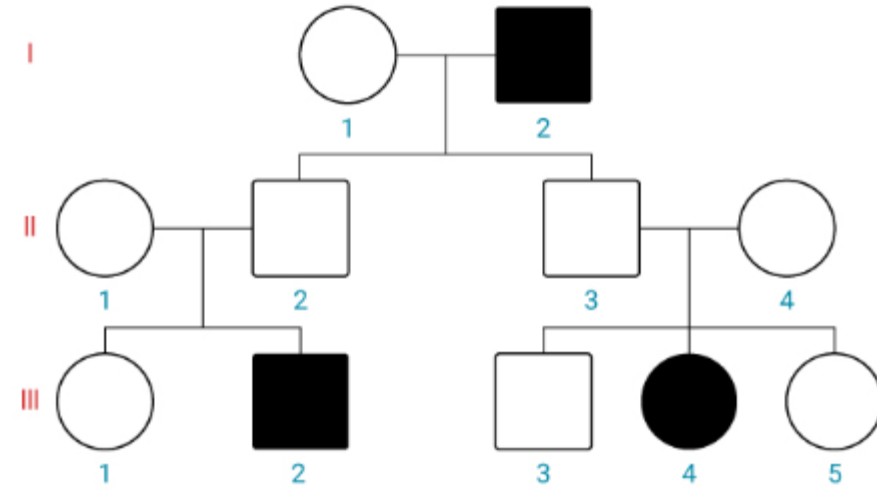
<https://t.me/Grade10GenAdv>



Select the correct answer.

Study the pedigree chart. What can you conclude about the trait it analyzes?

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ATTEMPT 1

☒ It is recessive and autosomal. ✓

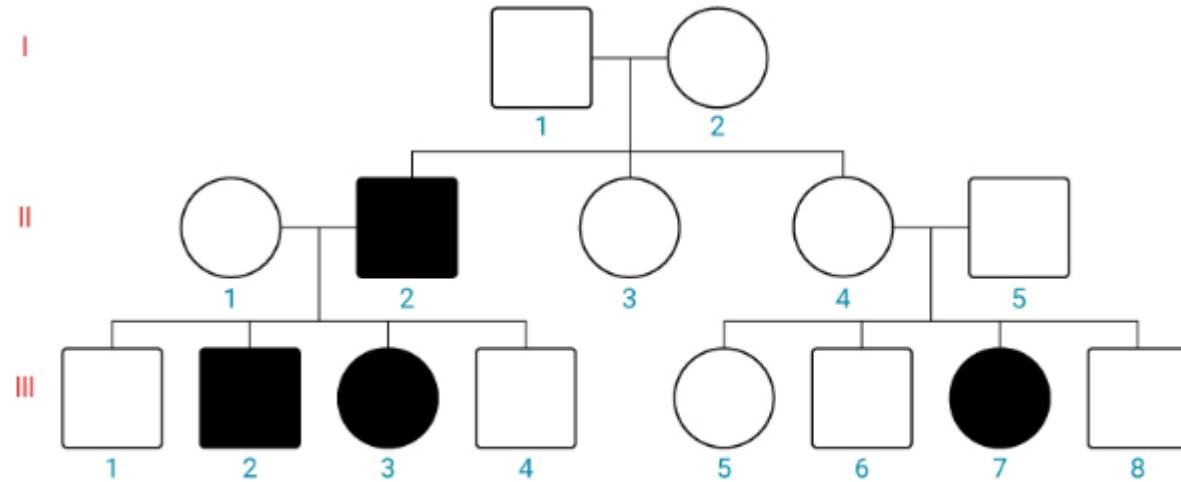
☐ It is dominant and autosomal. ✗

☐ It is dominant and X-linked.

☐ It is recessive and X-linked.

Select the correct answers.

What can you learn from pedigree analysis?



ATTEMPT 1

☐

whether the unborn offspring will be male or female

☐

how many traits an individual inherits

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☐

the number of recessive traits an individual has

☒

whether a trait is autosomal or sex-linked

☐

the names of individuals in a family

☒

whether a trait is dominant or recessive



Drag and drop the correct term to complete the sentence.

Some traits are autosomal but appear as though they are related to gender. Pattern baldness, for example, occurs more frequently in males than in females because it is dominant in males but recessive in females. Such traits are known as

1. sex-influenced ✓ traits.



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↕ polygenic

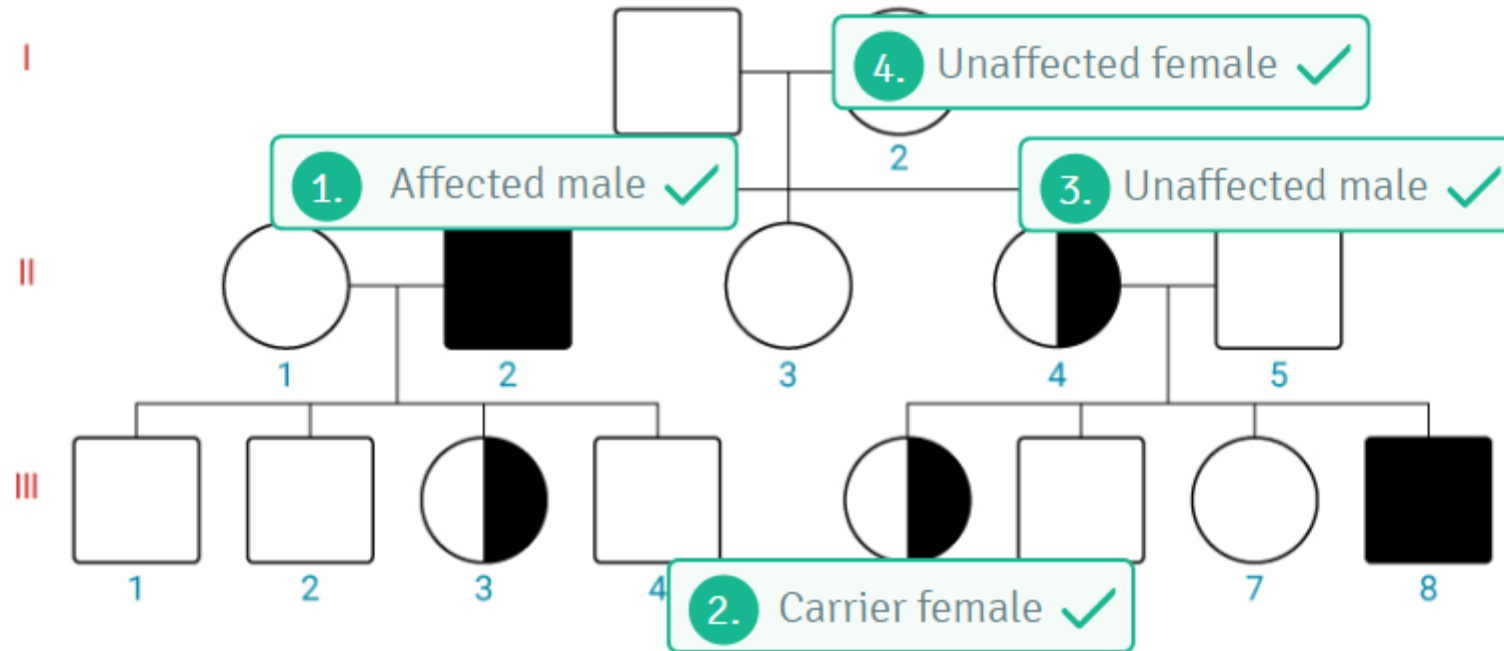
↕ codominant

↕ sex-linked

1. sex-influenced



Drag and drop the terms to correctly label the diagram.



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↕ Carrier male

↕ Affected female

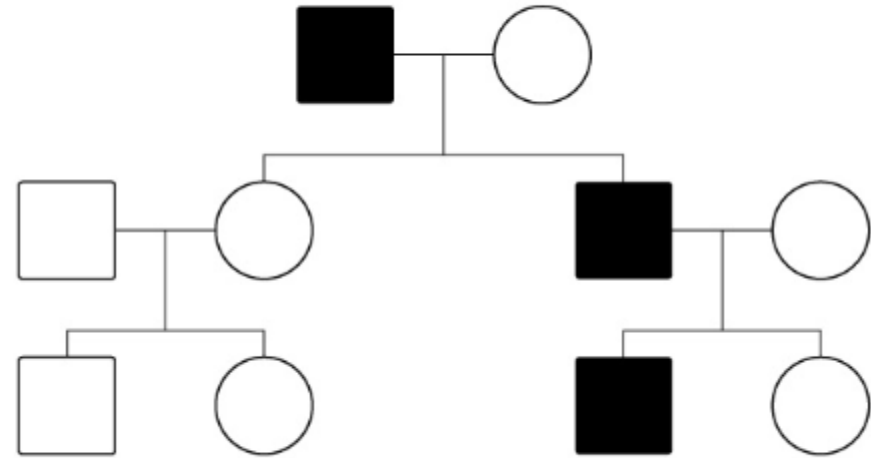
Select the best choice from the drop-down menu.

The individuals showing the trait studied in this pedigree are

1. all male ✓ ▼

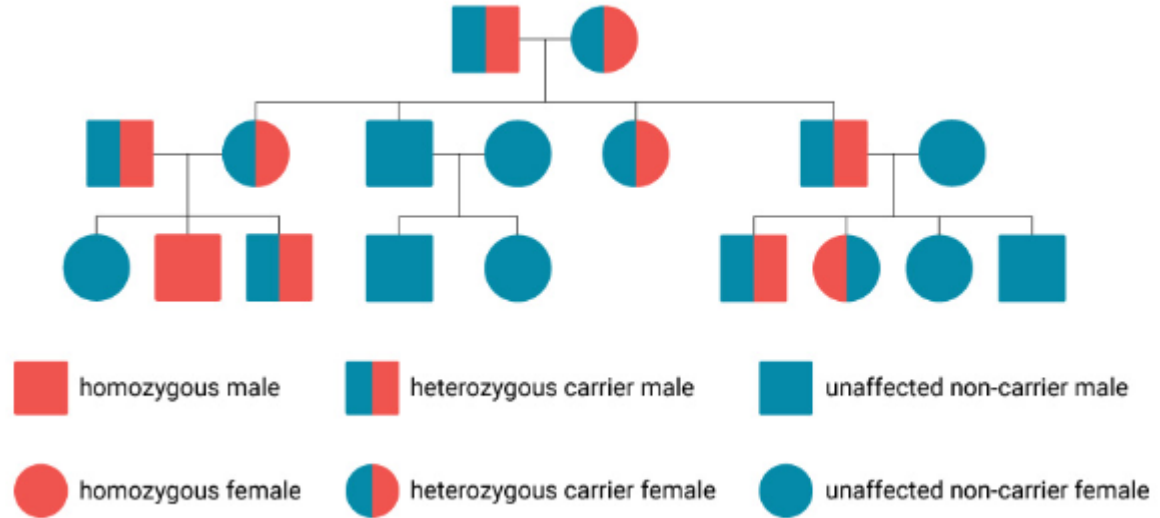
<https://t.me/Grade10GenAdv>

1. all male



Select the correct answers.

Study the pedigree chart. What conclusions can you make about the trait analyzed in this chart?



The trait is autosomal.



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The trait is dominant.



The grandparents are both heterozygous for the trait.



The gene for this trait is on the Y chromosome.



The trait is X-linked.

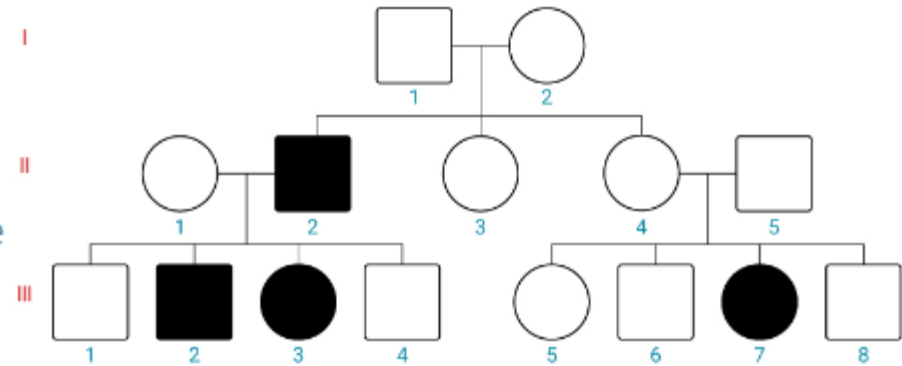


The trait is Y-linked.

Select the correct answer.

Study the pedigree chart for an autosomal recessive trait. If the recessive allele is (r), what is the genotype of individuals II-2 and III-7?

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(rr)



(Rr)



(X^rY) and (X^RX^r)



(X^rY) and (X^rX^r)