

Unit 02: Heredity and Inheritance

Author: Olivia D'Ambrogio

Lecturer @Saylor.org

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1. Unit 02: Heredity and Inheritance

4. Chapter: Unit 02: Heredity and Inheritance

1. Unit 02: Heredity and Inheritance Questions

4.1.1. For blood type in humans, the A and B alleles are codominant, while...

Author: Olivia D'Ambrogio

For blood type in humans, the A and B alleles are codominant, while the o allele is recessive. If an AB blood type mother had children with a B blood type father (genotype Bo), what approximate proportion of the children would have type B blood, and what proportion would have type A blood?

Please choose only one answer:

- 1/4 type B, 1/4 type A
- 1/2 type B, 1/4 type A
- 1/2 type B, 1/2 type A
- All would be type AB

Check the answer of this question online at QuizOver.com:

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4.1.2. For blood type in humans, the A and B alleles are codominant, while...

Author: Olivia D'Ambrogio

For blood type in humans, the A and B alleles are codominant, while the o allele is recessive. If an AB blood type mother had children with a B blood type father (genotype Bo), what approximate proportion of the children would express the protein associated with the B allele alone?

Please choose only one answer:

- 1/4
- 1/2
- 3/4
- 4/4

Check the answer of this question online at QuizOver.com:

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4.1.3. How many copies of each autosomal gene does the average person have...

Author: Olivia D'Ambrogio

How many copies of each autosomal gene does the average person have in each somatic cell?

Please choose only one answer:

- 1
- 2
- 3
- 4 or more

Check the answer of this question online at QuizOver.com:

Question: [How many copies of each autosomal gene Olivia D'Ambrogio @Saylor](#)

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4.1.4. How many copies of each autosomal gene does the average human gamet...

Author: Olivia D'Ambrogio

How many copies of each autosomal gene does the average human gamete have?

Please choose only one answer:

- 1
- 2
- 3
- 4 or more

Check the answer of this question online at QuizOver.com:

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4.1.5. If neither mother nor father express a sex-linked trait such as col...

Author: Olivia D'Ambrogio

If neither mother nor father express a sex-linked trait such as colorblindness (X' , where the apostrophe represents the presence of the associated allele), but both of their sons express the trait, what are the genotypes of the parents?

Please choose only one answer:

- XX and $X'Y$
- XX and XY
- $X'X$ and $X'Y$
- $X'X$ and XY

Check the answer of this question online at QuizOver.com:

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4.1.6. If two alleles for eye color (Y and B, representing yellow and blue...

Author: Olivia D'Ambrogio

If two alleles for eye color (Y and B, representing yellow and blue, respectively) in flies show incomplete dominance, and a third allele is recessive (o), what would be the approximate proportions of offspring eye phenotype for a cross between a yellow-eyed male (Yo) and a blue-eyed female (BB)?

Please choose only one answer:

- All green-eyed offspring
- 1/2 green, 1/2 blue
- 1/4 blue, 1/2 green, 1/4 yellow
- 1/2 yellow, 1/2 blue

Check the answer of this question online at QuizOver.com:

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4.1.7. If you are heterozygous for a particular gene, what approximate pro...

Author: Olivia D'Ambrogio

If you are heterozygous for a particular gene, what approximate proportion of your offspring would get the recessive form of the gene from you?

Please choose only one answer:

- $1/4$
- $1/2$
- $3/4$
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [If you are heterozygous for a particular Olivia D'Ambrogio @Saylor](#)

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4.1.8. Jan, a researcher at the University of Michigan, extracts a liver c...

Author: Olivia D'Ambrogio

Jan, a researcher at the University of Michigan, extracts a liver cell from a rat. She stains the cell and counts that it has 42 chromosomes. How many chromosomes would be in a gamete from this same organism?

Please choose only one answer:

- 42
- 21
- 84
- 10

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

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4.1.9. Taking into consideration the process of meiosis and all of its inc...

Author: Olivia D'Ambrogio

Taking into consideration the process of meiosis and all of its included events, which of the following pairs of genes are the most likely to regularly end up in the same gamete with each other?

Please choose only one answer:

- Two genes next to each other on the same chromosome
- Two genes in identical positions on different chromosomes
- Two genes on opposite ends of the same chromosome
- Both A and C

Check the answer of this question online at QuizOver.com:

Question: [Taking into consideration the process of Olivia D'Ambrogio @Saylor](#)

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4.1.10. What are the limits of Mendelian genetics?

Author: Olivia D'Ambrogio

What are the limits of Mendelian genetics?

Please choose only one answer:

- It does not take into account linkage, mutations, and gene interactions.
- No genes work as simply as suggested by these principles.
- The laws of segregation and independent assortment are false.
- No limits; Mendelian genetics works quite well in all situations.

Check the answer of this question online at QuizOver.com:

Question: [What are the limits of Mendelian genetics Olivia D @Saylor.org Evolutionary](#)

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4.1.11. What is the difference between an autosomal trait and a sex-linked ...

Author: Olivia D'Ambrogio

What is the difference between an autosomal trait and a sex-linked trait?

Please choose only one answer:

- Autosomal traits are based on genes, and sex-linked traits are based on hormones.
- Only males have alleles associated with sex-linked traits, while both males and females have alleles associated with sex-linked traits.
- Sex-linked traits are due to genes that occur on the chromosomes that determine sex, while autosomal traits are due to genes that occur on any of the other chromosomes.
- Autosomal traits are those that occur when an individual has only one allele, while sex-linked traits usually are due to the interaction of two or more alleles.

Check the answer of this question online at QuizOver.com:

Question: [What is the difference between an autosomal Olivia D @Saylor.org](#)

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4.1.12. What is trisomy?

Author: Olivia D'Ambrogio

What is trisomy?

Please choose only one answer:

- When somatic (diploid) cells contain 3 copies of a given chromosome
- When a gamete has 3 copies of a given chromosome
- When somatic (diploid) cells have only 3 chromosomes total
- When a gamete has only 3 chromosomes total

Check the answer of this question online at QuizOver.com:

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4.1.13. What would be the effect of an inverted gene (due to inversion duri...

Author: Olivia D'Ambrogio

What would be the effect of an inverted gene (due to inversion during meiosis)?

Please choose only one answer:

- No effect
- An inactive or otherwise altered protein product
- Twice as much protein product
- No transcriptase

Check the answer of this question online at QuizOver.com:

Question: [What would be the effect of an inverted Olivia D'Ambrogio @Saylor](#)

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4.1.14. Which of the following occurs when a DNA sequence on one chromosome...

Author: Olivia D'Ambrogio

Which of the following occurs when a DNA sequence on one chromosome is switched with a DNA sequence on another chromosome?

Please choose only one answer:

- Inversion
- Deletion
- Point mutation
- Reciprocal translocation

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Which of the following occurs when a DNA Olivia D'Ambrogio @Saylor](#)

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4.1.15. Which type of traits do the principles of Mendelian genetics work b...

Author: Olivia D'Ambrogio

Which type of traits do the principles of Mendelian genetics work best for?

Please choose only one answer:

- Continuous, polygenic traits
- All traits
- Discrete traits affected by only one gene
- Pleiotropic traits

Check the answer of this question online at QuizOver.com:

Question: [Which type of traits do the principles of Olivia D @Saylor.org Evolutionary](#)

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