

Evolutionary

Unit 01:

Mendelian

Genetics

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Table of Contents

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1. Unit 01: Mendelian Genetics

4. Chapter: Unit 01: Mendelian Genetics

1. Unit 01: Mendelian Genetics Questions

4.1.1. If a white-flowered plant (rr) is crossed with a red-flowered plant...

Author: Olivia D'Ambrogio

If a white-flowered plant (rr) is crossed with a red-flowered plant (RR), then what would be the phenotype of the offspring? Assume flower color shows complete dominance.

Please choose only one answer:

- Red flowers
- rr
- White flowers
- Rr

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

Question: [If a white-flowered plant rr is crossed Olivia D'Ambrogio @Saylor](#)

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4.1.2. If a white-flowered plant (rr) is crossed with a red-flowered plant...

Author: Olivia D'Ambrogio

If a white-flowered plant (rr) is crossed with a red-flowered plant (RR), what would be the genotype of the offspring?

Please choose only one answer:

- Red flowers
- rr
- White flowers
- Rr

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

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4.1.3. If an individual expresses a phenotype associated with a dominant g...

Author: Olivia D'Ambrogio

If an individual expresses a phenotype associated with a dominant gene, does he or she have a recessive allele for that gene?

Please choose only one answer:

- Yes
- No
- You cannot tell unless you know how many offspring are produced.
- You cannot tell unless you know the genotype.

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

Question: [If an individual expresses a phenotype Olivia D'Ambrogio @Saylor](#)

Flashcards:

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4.1.4. If Dad has black hair (B) with green eyes (G), and Mom has blond ha...

Author: Olivia D'Ambrogio

If Dad has black hair (B) with green eyes (G), and Mom has blond hair (b) with grey eyes (g), and their children are 1/4 with blond hair and grey eyes, 1/4 with black hair and green eyes, 1/4 with black hair with grey eyes, and 1/4 with blond hair and green eyes, then what are the genotypes of Mom and Dad? Assume that hair and eye color show complete dominance.

Please choose only one answer:

- BBGG and bbgg
- BbGG and Bbgg
- BbGg and bbgg
- BbGg and BbGg

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

Question: [If Dad has black hair B with green eyes Olivia D'Ambrogio @Saylor](#)

Flashcards:

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4.1.5. If Mom can roll her tongue (R) but Dad cannot (r), and their childr...

Author: Olivia D'Ambrogio

If Mom can roll her tongue (R) but Dad cannot (r), and their children are 1/2 tongue rollers and 1/2 not, then what are the genotypes of Mom and Dad? Assume tongue rolling shows complete dominance.

Please choose only one answer:

- RR and rr
- Rr and rr
- RR and Rr
- Rr and Rr

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

Question: [If Mom can roll her tongue R but Dad cannot Olivia D @Saylor.org](#)

Flashcards:

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Interactive Question:

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4.1.6. If two red-flowered plants (Rr) are crossed, then what would be the...

Author: Olivia D'Ambrogio

If two red-flowered plants (Rr) are crossed, then what would be the genotypic ratio of the offspring?

Please choose only one answer:

- 1:2:1 (1/4 RR, 1/2 Rr, 1/4 rr)
- 1:3 (1/4 RR, 3/4 Rr)
- 1:2:1 (1/4 Rr, 1/2 rr, 1/4 RR)
- 1:3 (1/4 rr, 3/4 Rr)

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

Question: [If two red-flowered plants Rr are crossed Olivia D @Saylor.org Evolutionary](#)

Flashcards:

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Interactive Question:

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4.1.7. If two red-flowered plants (Rr) are crossed, then what would be the...

Author: Olivia D'Ambrogio

If two red-flowered plants (Rr) are crossed, then what would be the phenotypic ratio of the offspring? Assume flower color shows complete dominance.

Please choose only one answer:

- 1:2:1 (1/4 red, 1/2 pink, 1/4 white)
- 1:3 (1/4 red, 3/4 white)
- 1:2:1 (1/4 pink, 1/2 white, 1/4 red)
- 1:3 (1/4 white, 3/4 red)

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

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Interactive Question:

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4.1.8. If you cross a tall plant with white flowers (TTbb) with a short pl...

Author: Olivia D'Ambrogio

If you cross a tall plant with white flowers (TTbb) with a short plant with blue flowers (ttBB), then what proportion of the offspring will be short with white flowers? Assume plant height and flower color show complete dominance.

Please choose only one answer:

- 1/2
- 1/4
- 3/4
- None

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

Question: [If you cross a tall plant with white Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-you-cross-a-tall-plant-with-white-olivia-d-ambrogio-saylor?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-if-you-cross-a-tall-plant-with-white-olivia-d-ambrogio-saylor?pdf=3044>

4.1.9. If you cross a tall plant with white flowers (Ttbb) with a short pl...

Author: Olivia D'Ambrogio

If you cross a tall plant with white flowers (Ttbb) with a short plant with blue flowers (ttBb), what proportion of the offspring will be short with white flowers? Assume plant height and flower color show complete dominance.

Please choose only one answer:

- 1/2
- 1/4
- 3/4
- None

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

Question: [If you cross a tall plant with white Olivia D'Ambrogio @Saylor.org](#)

Flashcards:

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Interactive Question:

<http://www.quizover.com/question/question-if-you-cross-a-tall-plant-with-white-olivia-d-ambrogi-4043934?pdf=3044>

4.1.10. If you want to breed a new batch of blue-winged flies (b) with whit...

Author: Olivia D'Ambrogio

If you want to breed a new batch of blue-winged flies (b) with white eyes (g), which of the following should you cross? Assume wing and eye color show complete dominance.

Please choose only one answer:

- A blue-winged fly (b) with green eyes (G) and a blue-winged fly (b) with white eyes (g)
- A black-winged fly (B) with white eyes (g) and a blue-winged fly (b) with green eyes (G)
- Two blue-winged flies (b) with white eyes (g)
- Two black-winged flies (B) with green eyes (G)

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

Question: [If you want to breed a new batch of blue Olivia D'Ambrogio @Saylor](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-you-want-to-breed-a-new-batch-of-blue-olivia-d-ambrogio-sa?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/question-if-you-want-to-breed-a-new-batch-of-blue-olivia-d-ambrogio-sa?pdf=3044>

4.1.11. If you want to breed a new batch of leafy plants (L) with yellow fl...

Author: Olivia D'Ambrogio

If you want to breed a new batch of leafy plants (L) with yellow flowers (o), which of the following should you cross? Assume leafiness and flower color show complete dominance.

Please choose only one answer:

- An unleafed plant (l) with yellow flowers (o) and a leafy plant (L) with yellow flowers (o)
- A leafy plant (L) with orange flowers (O) and a leafy plant (L) with yellow flowers (o)
- Two unleafed plants (l) with yellow flowers (o)
- Two leafy plants (L) with orange flowers (O)

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

Question: [If you want to breed a new batch of leafy Olivia D @Saylor.org Evolutionary](#)

Flashcards:

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Interactive Question:

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4.1.12. What does it mean to have a heterozygous genotype?

Author: Olivia D'Ambrogio

What does it mean to have a heterozygous genotype?

Please choose only one answer:

- The genotype and the phenotype match.
- The genotype contains 3 alleles.
- The individual has two different alleles for the gene
- The individual has two of the same allele for the gene.

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

Question: [What does it mean to have a heterozygous Olivia D'Ambrogio @Saylor](#)

Flashcards:

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4.1.13. What would be the phenotypic ratio in the F2 generation of a homozy...

Author: Olivia D'Ambrogio

What would be the phenotypic ratio in the F2 generation of a homozygous dominant (red flower) and homozygous recessive (white flower) cross? Assume flower color shows complete dominance.

Please choose only one answer:

- 1:2:1 (1/4 red, 1/2 pink, 1/4 white)
- 1:3 (1/4 red, 3/4 white)
- 1:2:1 (1/4 pink, 1/2 white, 1/4 red)
- 1:3 (1/4 white, 3/4 red)

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

Question: [What would be the phenotypic ratio in the Olivia D @Saylor.org Evolutionary](#)

Flashcards:

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Interactive Question:

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4.1.14. Which of the following indicates a homozygous dominant genotype?

Author: Olivia D'Ambrogio

Which of the following indicates a homozygous dominant genotype?

Please choose only one answer:

- RR
- rr
- Rr
- rR

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

Question: [Which of the following indicates a homozygous Olivia D @Saylor.org](#)

Flashcards:

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Interactive Question:

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4.1.15. Which of the following indicates a homozygous recessive genotype?

Author: Olivia D'Ambrogio

Which of the following indicates a homozygous recessive genotype?

Please choose only one answer:

- RR
- rr
- Rr
- rR

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

Question: [Which of the following indicates a homozygous Olivia D @Saylor.org](#)

Flashcards:

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