

Biology 12  
Mendel's  
Experiments  
& Heredity  
MCQ

Author: OpenStax College

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## 4. Chapter: Biology 12 Mendel's Experiments & Heredity MCQ

### 1. Biology 12 Mendel's Experiments & Heredity MCQ Questions

#### 4.1.1. Mendel performed hybridizations by transferring pollen from the \_\_\_\_...

Author: OpenStax College

Mendel performed hybridizations by transferring pollen from the \_\_\_\_\_ of the male plant to the female ova.

Please choose only one answer:

- anther
- pistil
- stigma
- seed

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

Question: [Mendel performed hybridizations by OpenStax College Biology 12 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/mendel-performed-hybridizations-by-openstax-college-biology-12-quest?pdf=1505>

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#### 4.1.2. Which is one of the seven characteristics that Mendel observed in p...

Author: OpenStax College

Which is one of the seven characteristics that Mendel observed in pea plants?

Please choose only one answer:

- flower size
- seed texture
- leaf shape
- stem color

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

Question: [Which is one of the seven characteristics OpenStax College Biology](#)

Flashcards:

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#### 4.1.3. Imagine you are performing a cross involving seed color in garden p...

Author: OpenStax College

Imagine you are performing a cross involving seed color in garden pea plants. What F1 offspring would you expect if you cross true-breeding parents with green seeds and yellow seeds? Yellow seed color is dominant over green.

Please choose only one answer:

- 100 percent yellow-green seeds
- 100 percent yellow seeds
- 50 percent yellow, 50 percent green seeds
- 25 percent green, 75 percent yellow seeds

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

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#### 4.1.4. Consider a cross to investigate the pea pod texture trait, involvin...

Author: OpenStax College

Consider a cross to investigate the pea pod texture trait, involving constricted or inflated pods. Mendel found that the traits behave according to a dominant/recessive pattern in which inflated pods were dominant. If you performed this cross and obtained 650 inflatedpod plants in the F2 generation, approximately how many constricted-pod plants would you expect to have?

Please choose only one answer:

- 600
- 165
- 217
- 468

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

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#### 4.1.5. The observable traits expressed by an organism are described as its...

Author: OpenStax College

The observable traits expressed by an organism are described as its \_\_\_\_\_.

Please choose only one answer:

- phenotype
- genotype
- alleles
- zygote

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

Question: [The observable traits expressed by an OpenStax College Biology 12](#)

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4.1.6. A recessive trait will be observed in individuals that are \_\_\_\_\_...

Author: OpenStax College

A recessive trait will be observed in individuals that are \_\_\_\_\_ for that trait.

Please choose only one answer:

- heterozygous
- homozygous or heterozygous
- homozygous
- diploid

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

Question: [A recessive trait will be observed in OpenStax College Biology 12](#)

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#### 4.1.7. If black and white true-breeding mice are mated and the result is a...

Author: OpenStax College

If black and white true-breeding mice are mated and the result is all gray offspring, what inheritance pattern would this be indicative of?

Please choose only one answer:

- dominance
- codominance
- multiple alleles
- incomplete dominance

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

Question: [If black and white true-breeding mice are OpenStax College Biology](#)

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#### 4.1.8. The ABO blood groups in humans are expressed as the IA, IB, and i a...

Author: OpenStax College

The ABO blood groups in humans are expressed as the IA, IB, and i alleles. The IA allele encodes the A blood group antigen, IB encodes B, and i encodes O. Both A and B are dominant to O. If a heterozygous blood type A parent (IAi) and a heterozygous blood type B parent (IBi) mate, one quarter of their offspring will have AB blood type (IAIB) in which both antigens are expressed equally. Therefore, ABO blood groups are an example of:

Please choose only one answer:

- multiple alleles and incomplete dominance
- codominance and incomplete dominance
- incomplete dominance only
- multiple alleles and codominance

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

Question: [The ABO blood groups in humans are expressed OpenStax College Biology](#)

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#### 4.1.9. In a mating between two individuals that are heterozygous for a rec...

Author: OpenStax College

In a mating between two individuals that are heterozygous for a recessive lethal allele that is expressed in utero, what genotypic ratio (homozygous dominant:heterozygous:homozygous recessive) would you expect to observe in the offspring?

Please choose only one answer:

- 1:2:1
- 3:1:1
- 1:2:0
- 0:2:1

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

Question: [In a mating between two individuals that OpenStax College Biology](#)

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#### 4.1.10. Assuming no gene linkage, in a dihybrid cross of AABB x aabb with A...

Author: OpenStax College

Assuming no gene linkage, in a dihybrid cross of AABB x aabb with AaBb F1 heterozygotes, what is the ratio of the F1 gametes (AB, aB, Ab, ab) that will give rise to the F2 offspring?

Please choose only one answer:

- 1:1:1:1
- 1:3:3:1
- 1:2:2:1
- 4:3:2:1

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

Question: [Assuming no gene linkage in a dihybrid OpenStax College Biology 1](#)

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#### 4.1.11. The forked line and probability methods make use of what probabilit...

Author: OpenStax College

The forked line and probability methods make use of what probability rule?

Please choose only one answer:

- test cross
- product rule
- monohybrid rule
- sum rule

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

Question: [The forked line and probability methods OpenStax College Biology](#)

Flashcards:

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#### 4.1.12. How many different offspring genotypes are expected in a trihybrid ...

Author: OpenStax College

How many different offspring genotypes are expected in a trihybrid cross between parents heterozygous for all three traits when the traits behave in a dominant and recessive pattern? How many phenotypes?

Please choose only one answer:

- 64 genotypes; 16 phenotypes
- 16 genotypes; 64 phenotypes
- 8 genotypes; 27 phenotypes
- 27 genotypes; 8 phenotypes

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

Question: [How many different offspring genotypes OpenStax College Biology 1](#)

Flashcards:

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