





# Quiz Show



Question and Answer   
Samples and Techniques 



A distinguishing characteristic that can be inherited is a(n)

trait



Mendel knew that the variations in the offspring generations resulted from his experiments because he

**Controlled the fertilization**



Recessive alleles may not be expressed  
because they are

masked by a dominant allele.



Which of the following phrases describes the Punnett square in Figure 6.1?

<b>S</b>	<b>SS</b>	<b>Ss</b>
<b>s</b>	<b>Ss</b>	<b>ss</b>

FIG. 6.1

monohybrid heterozygous-heterozygous cross

Imagine two heterozygous parents. Each has a dominant allele  $X$  for brown eyes and a recessive allele  $x$  for blue eyes. The phenotypic ratio for brown:blue eyes in their children is

3:1



Which law states that organisms inherit two copies of each gene and donate one copy to each of their offspring?

law of segregation



Which of the following events is an important factor in increasing variety among sexually reproducing organisms?

**Crossing over**





Suppose a mouse is homozygous for alleles that produce black fur and homozygous for alleles of an epistatic gene that prevents fur coloration. What color fur will the mouse have?

**All white**



Suppose a person is a carrier for a genetic disorder. Which of the following phrases about this person is true?

does not have the disorder but can pass it on



Which of the following is an example of a biological trait?

- A personality
- B hair style
- C eye color
- D regional accent

C

