



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 In a certain variety of chicken, the genes for black feather color and the genes for white feather color are **codominant**. This variety of chicken will most likely have

**A** three possible phenotypes for feather color  
**B** white feather color, only  
**C** only two genotypes for feather color  
**D** black feather color, only



2 In fruit flies, **red eye color (R)** is dominant and **white eye color (r)** is recessive. The allele for eye color is carried on the X-chromosome. Which cross would most likely produce **50% white-eyed males** and **50% red-eyed males**?

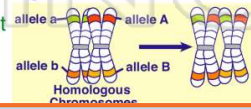
**A**  $X^{R}X^{R} \times X^{R}Y$   
**B**  $X^{R}X^{R} \times X^{r}Y$   
**C**  $X^{R}X^{r} \times X^{r}Y$   
**D**  $X^{r}X^{r} \times X^{R}Y$

3 A **mutation** may be passed on to future generations if it occurs within **specialized cells** of the

**A** stomach  
**B** liver



4 The results of a **genetic process** are represented in this diagram. Which process most likely produced these results?



## PREVIEW

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7

**A** 0%  
**B** 25%  
**C** 50%  
**D** 75%



**A** Down syndrome  
**B** hemophilia  
**C** color blindness  
**D** phenylketonuria

9 The **genes located** at corresponding positions on **homologous chromosomes** are known as

**A** autosomes  
**B** homozygotes  
**C** alleles  
**D** heterozygotes



10 An individual possesses **two identical genes for a certain trait**. For this trait, the individual is said to be

**A** dominant  
**B** hybrid  
**C** homozygous  
**D** heterozygous





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A

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- A  $X^{R^R}X^{R^R} \times X^{R^R}Y$
- B  $X^{R^R}X^{R^R} \times X^rY$
- C  $X^{R^R}X^r \times X^rY$
- D  $X^rX^r \times X^{R^R}Y$

C

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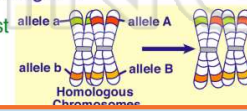
- A stomach
- B liver



D

4 The results of a **genetic process** are represented in this diagram.

Which process most likely produced these results?



D



5

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- A 0%
- B 25%
- C 50%
- D 75%



- A Down syndrome
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A

9 The **genes located** at corresponding positions on **homologous chromosomes** are known as

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C

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C