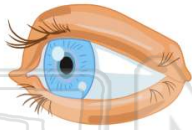




Name _____ Class _____ Date _____

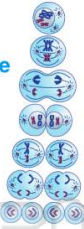
1 When one of **two traits** can be inherited **without the other**, the genes for these traits are said to be

- A dominant
- B recessive
- C blended
- D independent



2 In sexually reproducing species, the **number of chromosomes in each body cell** remains the same from one generation to the next as a direct result of

- A meiosis and fertilization
- B mitosis and mutation
- C differentiation and aging
- D homeostasis and dynamic equilibrium



3 In which process is the pairing of **homologous chromosomes** followed by the **disjunction** of these chromosome pairs?

- A binary fission
- B budding

4 What are the **normal chromosome numbers** of a **sperm**, **egg**, and **zygote**, respectively?

- A monoploid, monoploid, and monoploid
- B monoploid, diploid



5



PREVIEW

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7

- C messenger RNA molecule
- D DNA molecule

- C a large population
- D mutations

9

Genes are **inherited**, but their expressions can be **modified** by the environment. This statement explains **why**

- A some animals have dark fur only when the temperature is within a certain range
- B offspring produced by means of sexual reproduction look exactly like their parents
- C identical twins who grow up in different homes have the same characteristics
- D animals can be cloned, but plants cannot

10

The **great variety of possible gene combinations** in a **sexually reproducing species** is due in part to the

- A sorting of genes as a result of gene replication
- B pairing of genes as a result of mitosis
- C pairing of genes as a result of differentiation
- D sorting of genes as a result of meiosis

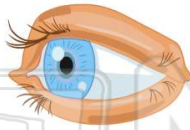




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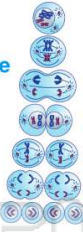
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D

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A

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D

5



D

PREVIEW

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D