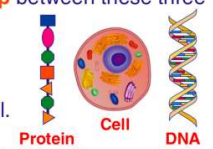





Name _____ Class _____ Date _____

- 1 Which process is **least likely** to **add** to the **variety of traits** in a population?
- A deletion of bases from DNA
 - B genetic engineering
 - C accurate replication of DNA
 - D exchange of segments between chromosomes

- 2 What is the **relationship** between these three structures?
- 
- A DNA is made up of proteins that are synthesized in the cell.
 - B Protein is composed of DNA that is stored in the cell.
 - C DNA controls the production of protein in the cell.
 - D The cell is composed only of DNA and protein.


- 3 The **genetic code** of a DNA molecule is determined by a **specific sequence** of
- 
- A ATP molecules
 - B sugar molecules

- 4 To produce large tomatoes that are resistant to cracking and splitting, some seed companies use the pollen from one variety of tomato plant to **fertilize** a different variety of tomato plant. **This process is an example of**



PREVIEW

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- C chromosome number
D shape and size
- 

- sequence of DNA bases → appearance of characteristic
C appearance of characteristic → joining amino acids in sequence → a change in the sequence of DNA bases
D a change in the sequence of DNA bases → appearance of characteristic → joining amino acids in sequence

- 9 Arrange the following structures from **largest to smallest**.
- A chromosome, nucleus, gene
 - B nucleus, chromosome, gene
 - C gene, nucleus, chromosome
 - D nucleus, gene, chromosome

- 10 The nucleus is removed from a body cell of one organism and is placed in an egg cell that has had its nucleus removed. **This process, which results in the production of organisms that are genetically alike, is known as**
- A cloning
 - B fertilization
 - C biological adaptation
 - D DNA production



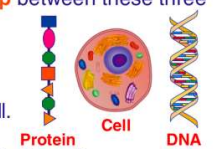
Name _____ Class _____ Date _____

1 Which process is **least likely** to **add** to the **variety of traits** in a population?

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(C)

2 What is the **relationship** between these three structures?




A DNA is made up of proteins that are synthesized in the cell.
B Protein is composed of DNA that is stored in the cell.
C DNA controls the production of protein in the cell.
D The cell is composed only of DNA and protein.

(C)

3 The **genetic code** of a DNA molecule is determined by a **specific sequence** of

A ATP molecules
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(D)

4 To produce large tomatoes that are resistant to cracking and splitting, some seed companies use the pollen from one variety of tomato plant to **fertilize** a different variety of tomato plant. **This process is an example of**

(A)




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(A)

6 **C** chromosome number
D shape and size



sequence of DNA bases → appearance of characteristic
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9 Arrange the following structures from **largest to smallest**.

A chromosome, nucleus, gene
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(B)

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(A)