



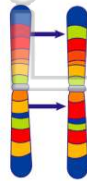
Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Which **human disorder** is characterized by a group of abnormal body cells that **suddenly begin to undergo cell division** at a very rapid rate?

- A albinism
- B cancer
- C hemophilia
- D color blindness

3 Which statement best describes a **chromosomal alteration**?

- A It never affects the phenotype of an organism.
- B It may affect the phenotype of an organism.
- C It always produces a recessive genotype



2 Which process normally occurs during **meiosis**, but **not** during **mitosis**?

- A chromosomal replication
- B synapsis of chromosomes
- C spindle formation
- D centromere replication

4 A **DNA nucleotide** is composed of

- A carbon, hydrogen, oxygen, nitrogen, and phosphorus
- B carbon, hydrogen, nitrogen, sulfur, and calcium
- C calcium, hydrogen, oxygen, phosphorus, and iron



5



## PREVIEW

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7

- A a gamete reproducing sexually
- B a white blood cell engulfing bacteria
- C a zygote being produced in an ovary
- D an animal repairing damaged tissue

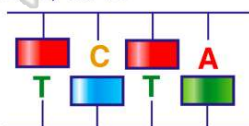
the blood

- B release hormones to the blood
- C pass through artery walls
- D carry out cell division



9 The diagram below represents an incomplete section of a **DNA molecule**. The boxes represent **unidentified bases**. When the boxes are filled in, the **total number of bases** represented by the **letter A** (both inside and outside the boxes) will be

- A 1
- B 2
- C 3
- D 4



10 **Hereditary information** is stored inside the

- A ribosomes, which have chromosomes that contain many genes
- B ribosomes, which have genes that contain many chromosomes
- C nucleus, which has chromosomes that contain many genes
- D nucleus, which has genes that contain many chromosomes



## ANSWER KEY

Which **human disorder** is characterized by a group of abnormal body cells that **suddenly begin to undergo cell division** at a very rapid rate?

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(b)

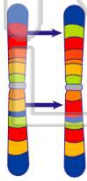
Which process normally occurs during **meiosis**, but **not** during **mitosis**?

- A chromosomal replication
- B synapsis of chromosomes
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(b)

Which statement best describes a **chromosomal alteration**?

- A It never affects the phenotype of an organism.
- B It may affect the phenotype of an organism.
- C It always produces a recessive genotype in an organism.
- D It never has an effect on the genotype of



(b)

A **DNA nucleotide** is composed of

- A carbon, hydrogen, oxygen, nitrogen, and phosphorus
- B carbon, hydrogen, nitrogen, sulfur, and calcium
- C calcium, hydrogen, oxygen, phosphorus, and iron
- D oxygen, hydrogen, phosphorus,



(a)



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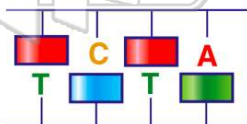
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(c)

**Hereditary information** is stored inside the

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- C nucleus, which has chromosomes that contain many genes
- D nucleus, which has genes that contain many chromosomes

(c)