

Activity 10.1

Reading material on our website on genetic variation in gametes complements each of the following questions. Read the material first and then attempt to answer the questions.

1. Match each of the following changes in chromosome structure to its definition:

☒ A. Crossing

☐ B. Duplication

☐ C. Inversion

☐ D. Translocation

1a. a section of a chromosome is inserted

1b. a piece of a chromosome is deleted

1c. a segment of one chromosome has moved to a different, non-homologous, chromosome

1d. a section of a chromosome appears twice or more times in a row

2. How many genetically different gametes can be produced from a diploid cell with four chromosomes pairs? Explain your answer.

There are 16 genetically different gametes that can be produced because in 2ⁿ where n is total number chromosomes pairs, a diploid cell with four chromosomes pairs will produce 2⁴ or 16 genetically different gametes.

3. Although you will learn a mechanism of mutation from your reading, you recognize that some traits are the less frequent occurrences. For example, both color and eye color. Why may some traits be inherited together?

That is because linked together and travel on the same chromosome. Therefore, they are inherited together as a unit, and a recombination of genes only occurs with recombination. Some traits will be found with some frequency in the gametes, usually, inheritance will be linked together.

4. Describe the alignment of chromosomes during prophase I, write the equation.

During prophase I, homologous chromosomes and non-homologous chromosomes align together, called synapsis. This is a synapsis because it shows the pairing between sister and brother, but not between genetic variation.

5. How does recombination lead to chromosomes with new combinations? Describe two types of genetic mutations that can result from recombination.

17 Genetic And Variation Answer Key

G Thomas



17 Genetic And Variation Answer Key:

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