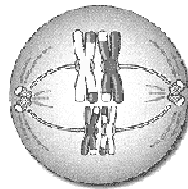


1. What does the information in a gene code for? \_\_\_\_\_
2. What is the purpose of meiosis? \_\_\_\_\_  
\_\_\_\_\_
3. How is genetic information passed from parents to offspring? \_\_\_\_\_
4. What phase is shown in the diagram below? \_\_\_\_\_



5. What term best describes the cell in the diagram above? \_\_\_\_\_
  6. What term describes homologous chromosomes forming a tetrad during prophase I? \_\_\_\_\_
  7. A fertilized cell is called a \_\_\_\_\_
  8. What event during Prophase I results in genetic variation in the daughter cells and therefore also in the next generation of organisms?  
\_\_\_\_\_
  9. What is the difference between metaphase (in mitosis) and metaphase I (in meiosis)? \_\_\_\_\_  
\_\_\_\_\_
  10. How many chromosomes are found in human body cells? \_\_\_\_\_
  11. Describe what a gene is: \_\_\_\_\_
  12. How many chromosomes are (is) in a haploid cell? \_\_\_\_\_
  13. Describe what a chromatin is: \_\_\_\_\_  
\_\_\_\_\_
- 
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14. What is a Diploid cell? \_\_\_\_\_
15. What is a Haploid cell? \_\_\_\_\_
16. When does synapsis occur? \_\_\_\_\_
17. Which cells are classified as haploid gametes? \_\_\_\_\_
18. In which phase does DNA get replicated in the Meiosis cell cycle? \_\_\_\_\_
19. In which Meiosis I phase do the homologous pairs of chromosomes line up on the equator? \_\_\_\_\_
- \_\_\_\_\_
20. In which Meiosis I phase does crossover occur frequently? \_\_\_\_\_
21. Refer to the diagram below. In which phase of Meiosis do the spindle fibers guide separated homologous chromosome pairs toward opposite poles?
- \_\_\_\_\_

