

Name _____

How New Cells can be Formed

Write out definitions for the following terms, using your textbook when necessary:

- cell division -
- mitosis -
- meiosis -
- homologous -
- gamete -
- zygote -
- fertilization (p. 1016) -
- chromosome
- diploid
- haploid

- Use your textbook and the previous defined words to answer the following questions:
- 1. How many chromosomes are in a normal human cell, such as a skin cell?
- 2. If a normal human body cell divides, which type of cell division would it use?
 - How many chromosomes would be in the resulting daughter cells?
- 3. What type of cell division is only used in humans to produce gametes?
- 4. How many chromosomes are in human gamete cells?
- 5. What are the two types of human gametes?
- 6. Name any two human cells that are diploid.
- 7. Name any two human cells that are haploid.
- 8. What is the only process in humans that produces haploid cells?
- 9. What is the only type of human cell that is haploid?
- 10. What process forms a zygote?
- 11. How many chromosomes are in a human zygote?
- 12. Is a zygote diploid or haploid?
- 13. What type of cell division keeps zygotes from having 92 chromosomes?
- 14. What type of cell division turns a zygote into a multicelled human?
- 15. What are the only three processes that can form new cells?