

## The Cell Cycle in Your Body

Read section 1.3 (p. 24 to 28) in your textbook and answer the following questions.

1. The cell cycle is responsible for the \_\_\_\_\_ and \_\_\_\_\_ of all your body cells.
2. The cell cycle ensures that the number of chromosomes in the nuclei of your body cells will remain \_\_\_\_\_.
3. How many chromosomes does a normal human body cell have? \_\_\_\_\_
4. (a) In the human body, which cells live the longest? (b) Which cells are replaced most often? (c) How would their cell cycles be different? \_\_\_\_\_  
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\_\_\_\_\_
5. (a) What is regeneration? (b) What does mitosis have to do with regeneration? \_\_\_\_\_  
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\_\_\_\_\_
6. How do scientists explain the aging process? \_\_\_\_\_  
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\_\_\_\_\_
7. (a) What is cancer? (b) What negative effects can cancer have on surrounding cells? \_\_\_\_\_  
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\_\_\_\_\_
8. What are some factors that increase the risk of cancer in humans? \_\_\_\_\_  
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\_\_\_\_\_
9. What are some things you can do to reduce your risk of cancer? \_\_\_\_\_  
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