Cell Biology

Life of a Eukaryotic Cell

Name:

Period:

Use Chapter 5, Section 2 of your textbook to answer the questions below.

Section 2: The Cell Cycle

1. [review from p.152] DNA of a cell is organized into structures called ______.

Eukaryotic Cells and Their DNA (p.153)

2. Unlike prokaryotic cells, eukaryotic cells have _____ chromosomes.

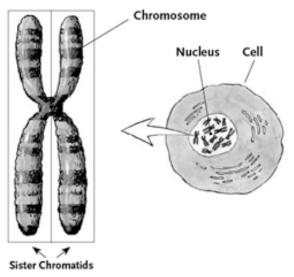
3. Eukaryotes have more ______ than prokaryotes.

4. How many chromosomes do humans have? _____

5. Look at Figure 2. How many sets (pairs) of chromosomes do humans have? _____

___ 6. What are pairs of similar chromosomes called?

a. prokaryotic pairsb. homologous chromosomesc. DNA chromosomesd. eukaryotic pairs



Making More Eukaryotic Cells

Match the stage of the eukaryotic cell cycle to what happens.

7. first stage	 a. cell splits into two daughter cells

10	When c	cells a	re copied.	the two	conies a	re called	

1	1.	The	process of	f separating o	chromosomes is called

12. A fruit fly has 8 chromosomes. How many chromosomes will a fruit fly daughter cell have? _____