

## Chapter 12: Cell Cycle

### 1. What are the three key functions of cell division?

| Key Function           | Example   |
|------------------------|---|
| reproduction           | an amoeba dividing into two cells, each constituting an individual organism |
| growth and development | fertilized egg gives rise to two-celled sand dollar embryo                  |
| tissue renewal         | dividing cells in bone marrow continuously make new blood cells             |

### 2. What is meant by "cell cycle"?

The cell cycle is the life of a cell from the time it is first formed from a dividing parent cell until its own division into two daughter cells. This process is cyclical because every cell forms from a preexisting cell.

### 3. What is the meaning of "genome"? Compare your genome to that of a prokaryotic cell.

A cell's endowment of DNA, its genetic information, is called its genome. While a prokaryotic genome is often a single DNA molecule, a typical human cell has 46 molecules of DNA.

### 4. How many chromosomes are in a human somatic cell?

The nuclei of human somatic cells each contain 46 chromosomes, made up of two sets of 23, one set inherited from each parent.

### 5. Name two types of somatic cells in your body.

Somatic cells include bone cells and liver cells.

### 6. What is a gamete?

Gametes are reproductive cells.

### 7. Name the two types of gametes.

Sperm are the gametes in males and eggs are the gametes in females.

### 8. How many chromosomes are in a human gamete?

A human gamete contains one set of 23 chromosomes.

### 9. Define chromatin.

Chromatin is the entire complex of DNA and proteins that makes up chromosomes.

### 10. How many DNA molecules are in each of your somatic cells?

Since each chromosome consists of one DNA molecule, each human somatic cell contains 46 chromosomes.

### 11. The sketch represents a replicated chromosome that has two sister chromatids. ✓

A chromosome is a packaged gene-carrying structure consisting of chromatin. A chromatid is one copy of a duplicated chromosome. A centromere is a region containing specific DNA sequences where the chromatid is attached most closely to its sister chromatid (represented by the narrow "waist").

### 12. Summarize what occurs at the DNA level in each stage of chromosome duplication. ✓

# Holtzclaw Reading Guide Answers

**Hussin A.Rothana**



**Holtzclaw Reading Guide Answers:**

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