

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. ✓

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L Reisser



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