

Cell Division Study Guide (Chapter 4.1-4.2)

Part I: Vocabulary. Using the word bank below, write the correct term next to its definition. Each word will only be used once.

interphase	chromosome	haploid	sister chromatids
zygote	sperm	diploid	egg
meiosis	regeneration	meiosis I	fertilization
budding	cell cycle	meiosis II	asexual reproduction
cytokinesis	sexual reproduction	mitosis	fission

1. **asexual reproduction** type of reproduction where a new exact copy of one parent organism is formed.
2. **cell cycle** the "life cycle" of a cell, a series of events that take place from one cell division to the next.
3. **chromosome** structure in the nucleus that contains hereditary material (DNA).
4. **sexual reproduction** 2 sex cells, usually egg and sperm, come together in this type of reproduction.
5. **diploid** body cells that have 23 pairs (46 total) chromosomes in humans.
6. **haploid** sex cells with half the number of chromosomes (23 in humans).
7. **fission** form of asexual reproduction used by bacteria.
8. **mitosis** the process our body cells use to divide, the nucleus divides to form two identical nuclei.
9. **sperm** sex cell formed in the male reproductive organs.
10. **egg** sex cell formed in the female reproductive organs.
11. **meiosis** the process that produces haploid sex cells and ensures that offspring have the same diploid number as the parent.
12. **cytokinesis** division of the cytoplasm following mitosis and the forming of 2 new cells.
13. **budding** form of asexual reproduction in which a small, exact copy of the adult grows from the parent.
14. **fertilization** joining of the egg and sperm.
15. **interphase** period of growth and development before cell division when chromosomes are duplicated.
16. **meiosis I** part of meiosis when the nucleus divides and produces two new cells with one duplicated chromosome each.

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