

Cell Cycle & Meiosis Review

1. Identify and briefly explain the five phases of mitosis.

Prophase: Nuclear envelope breaks down, cytoskeleton disassembles, chromosomes condense to become visible, microtubules (formally part of the cytoskeleton) begin to form on centrosomes, creating mitotic spindle.

Prometaphase: Proteins form around centromere to create kinetochores (two per chromosome), mitotic spindle extends and some connect to kinetochores.

Metaphase: Spindles push/pull all chromosomes to the middle of the cell, form metaphase plate.

Anaphase: Sister chromatids are torn apart at the centromere by shortening spindles.

Telophase: Nuclear envelope reforms on either side of cell, chromosomes unwind, mitotic spindle disassembles, cytoskeleton begins to reform.

2. If microtubules were unable to attach to reform after breaking down the cytoskeleton, what effect would this have on mitosis?

The cell would be unable to create the mitotic spindles, hence the chromosomes will be unable to be moved or torn apart.

3. What does $2n$ or n signify?

$2n$ means the cell is diploid (has two versions of each chromosome, one from each parent), n means the cell is haploid (one version of each chromosome). Cell is likely a gamete.

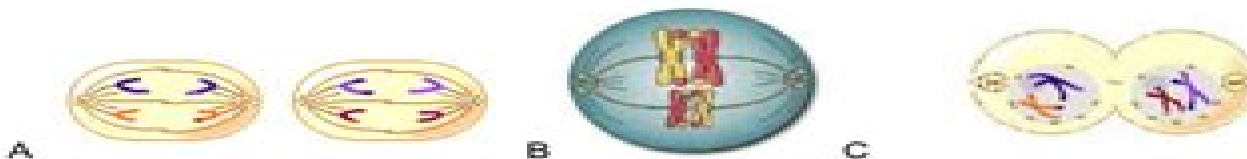
4. Compare the chromosome number in after mitosis, compared to meiosis.

Chromosome number is still diploid after mitosis (46 in the case of humans), haploid after meiosis (23 in humans).

5. What is a tetrad? How does this make mitosis different than meiosis?

A tetrad is two homologous chromosomes paired up. Synapsis (crossing over) can take place now. This happens in meiosis, but not mitosis.

6. Label which phase of meiosis each cell below should be in, and explain why:



A – Anaphase II. Sister chromatids are separating, but each chromatid is unique.

B – Metaphase I – Metaphase plate is made of tetrads.

C – Telophase I – Nuclei are reforming, containing full chromosomes (sister chromatids have not separated).

Life Molecule Reteaching Skills Answer Key

SB Merriam

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