

Cell Division Study Guide KEY

Directions - Complete the study guide reviewing Mitosis, Meiosis and Karyotypes. **PLEASE use a colored text** to write your answers and highlight the multiple choice answers.

PART 1 - MITOSIS

1. Mitosis is the process of creating two identical daughter cells that are diploid and represented by 2n. Mitosis forms the body cells. The correct order for the events in Mitosis includes

- a. Prophase
- b. Metaphase
- c. Anaphase
- d. Telophase
- e. Cytokinesis

WORD BANK FOR QUESTION 1

Prophase	Metaphase
Telophase	diploid
Cytokinesis	Anaphase
Identical	Haploid
2n	n
equation	body cells



2. Refer to the illustration above. The cell in diagram 1 is in

- a. metaphase.
- b. telophase.
- c. anaphase.
- d. prophase.

3. Refer to the illustration above. Mitosis begins with the stage shown in diagram

- a. 1.
- b. 2.
- c. 3.
- d. 4.

4. Refer to the illustration above. The cell shown in diagram 5 is in

- a. metaphase.
- b. telophase.
- c. anaphase.
- d. prophase.

5. Cytokinesis in plant cells involves the formation of

- a. replicated chromosomes.
- b. a cell plate.
- c. spindle fibers.
- d. centrioles.

6. A dog has 39 chromosomes. How many chromosomes does each daughter cell of a dog have after mitosis? 39

Cell Division Study Guide

Glencoe

Cell Division Study Guide:

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