

## Skills Worksheet

# Vocabulary Review

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In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- \_\_\_\_ 1. A segment of DNA that codes for RNA and protein is a
  - a. chromosome.
  - b. chromatid.
  - c. gene.
  - d. centromere.
- \_\_\_\_ 2. The structure in a cell that is made up of the cell's genetic material is a
  - a. centriole.
  - b. chromosome.
  - c. centrosome.
  - d. histone.
- \_\_\_\_ 3. Which of these is a substance consisting of DNA and protein?
  - a. chromatin
  - b. centriole
  - c. histone
  - d. centrosome
- \_\_\_\_ 4. The repeated sequence of growth and division during the life of a cell is called
  - a. the cell cycle.
  - b. the life cycle.
  - c. mitosis.
  - d. cytokinesis.
- \_\_\_\_ 5. The first three phases of the life cycle of a cell are called
  - a. anaphase.
  - b. interphase.
  - c. the first gap phase.
  - d. the synthesis phase.
- \_\_\_\_ 6. What is the process during which the nucleus of a cell is divided into two nuclei?
  - a. the cell cycle
  - b. nucleosome
  - c. mitosis
  - d. cytokinesis
- \_\_\_\_ 7. The phase of cell division when the cytoplasm is divided is called
  - a. the first gap phase.
  - b. the second gap phase.
  - c. the synthesis phase.
  - d. cytokinesis.
- \_\_\_\_ 8. During cell division, each single long strand of DNA becomes fully condensed in the form of a
  - a. centrosome.
  - b. chromosome.
  - c. chromatin.
  - d. chromatid.
- \_\_\_\_ 9. A type of protein found in eukaryotic chromosomes but not prokaryotic chromosomes is
  - a. centrosome.
  - b. nucleosome.
  - c. spindle fiber.
  - d. histone.

Vocabulary Review *continued*

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- \_\_\_\_\_ 10. During cell division, sister chromatids are separated at the
- a. centromere.
  - b. nucleosome.
  - c. centrosome.
  - d. chromosome.
- \_\_\_\_\_ 11. Which of these is a network of microtubules that forms during mitosis to pull chromatids to opposite ends of a cell?
- a. histone
  - b. chromatin
  - c. spindle
  - d. centromere
- \_\_\_\_\_ 12. In eukaryotes, a structural unit made up of DNA wound around a center of histone proteins is called a
- a. chromatid.
  - b. nucleosome.
  - c. centrosome.
  - d. looped domain.
- \_\_\_\_\_ 13. The structure that directs chromosome movement during mitosis and aids in the formation of the microtubule scaffolding that pulls on the chromosomes is the
- a. centrosome.
  - b. nucleosome.
  - c. spindle.
  - d. cytokinesis.

**Complete each statement by writing the correct term in the space provided.**

14. \_\_\_\_\_ is a group of severe and sometimes fatal diseases caused by uncontrolled cell growth.
15. A mass of defective cells that divide very rapidly is called a(n) \_\_\_\_\_.