

SECTION 8-1 REVIEW**CHROMOSOMES**

VOCABULARY REVIEW Distinguish between the terms in each of the following pairs of terms.

1. histone, nonhistone protein _____

2. chromatid, centromere _____

3. sex chromosome, autosome _____

4. diploid cell, haploid cell _____

MULTIPLE CHOICE Write the correct letter in the blank.

- _____ 1. During cell division, the DNA in a eukaryotic cell is tightly packed and coiled into structures called
a. centromeres. b. histones. c. haploids. d. chromosomes.
- _____ 2. Between cell divisions, the DNA in a eukaryotic cell is uncoiled and spread out; in this form it is called
a. chromatid. b. chromatin. c. histone. d. nonhistone.
- _____ 3. The chromosomes of most prokaryotes consist of proteins and
a. a single circular DNA molecule.
b. a single linear DNA molecule.
c. a pair of linear DNA molecules joined in the center.
d. a pair of homologous, circular DNA molecules.
- _____ 4. Humans have 46 chromosomes in all cells except sperm and egg cells. How many of these chromosomes are autosomes?
a. 2 b. 23 c. 44 d. 46
- _____ 5. If an organism has a diploid, or $2n$, number of 16, how many chromosomes do its sperm cells or eggs cells contain?
a. 8 b. 16 c. 32 d. 64

Section 8 1 Review Chromosomes Answer Guide

Michael Hoelscher



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