

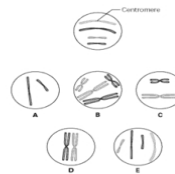
Name _____

Chapters 9 & 10: The Cell Cycle - Review

- 1) Starting with a fertilized egg (zygote), a series of five cell divisions would produce an early embryo with how many cells?
A) 4
B) 8
C) 16
D) 32
E) 64
- 2) If there are 20 chromatids in a cell, how many centromeres are there?
A) 10
B) 20
C) 30
D) 40
E) 80

Use the following information to answer the questions below.

The lettered circle in Figure 12.1 shows a diploid nucleus with four chromosomes. There are two pairs of homologous chromosomes, one long and the other short. One haploid set is symbolized as black and the other haploid set is gray. The chromosomes in the unlettered circle have not yet replicated. Choose the correct chromosomal conditions for the following stages.



- 3) at prometaphase of mitosis
- 4) one daughter nucleus at telophase of mitosis
- 5) A cell containing 92 chromatids at metaphase of mitosis would, at its completion, produce two nuclei containing how many chromosomes?
A) 12
B) 16
C) 23
D) 46
E) 92
- 6) All of the following occur during prophase of mitosis in animal cells *except*
A) the centrioles move toward opposite poles.
B) the nucleolus can no longer be seen.
C) the nuclear envelope disappears.
D) the spindle fibers attach to the centromeres.

of the genome is... pitches. They also examine tiny cuts on the surface called _____ that are by small metal teeth.

of _____ needed for an airtight case was obtained by investigators service. During the bath, investigators gathered some dog _____ and also _____ from the living room, which matched those found at the crime scenes.

become one of the justice system's most powerful _____, but can do great sed. In one case, hairs from a crime scene lead to the _____ of an

inct enough to be linked to an _____. They most investigators "hairs could have come from the same _____", but can never say that n individual.

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et developed for use with the United Streaming movie titled "The Value of Evidence"

to match differences in _____ were molded into the t

8. The final pieces offering a dog bathing got carpet _____

9. Forensic science ha harm if they are mist innocent man.

10. Hairs are not dist could ever say are that hairs come from a give

Worksh