Chapters 9 & 10: The Cell Cycle - Review	
1) Starting with a fertilized egg (zygote), a series of five cell divisions would produce an early	
	D) 32 E) 64
	romeres are there? 0) 40 E) 80
Use the following information to answer the questions	below.
The lettered circle in Figure 12.1 shows a diploid nucle chromosomes. There are two pairs of homologous chilong and the other short. One haploid set is symbolize other haploid set is gray. The chromosomes in the unlinot yet replicated. Choose the correct chromosomal collowing stages.	romosomes, one d as black and the ettered circle have
3) at prometaphase of mitosis	0
4) one daughter nucleus at telophase of mitosis	
	itosis would, at its completion, produce two 0) 46 E) 92
6) All of the following occur during prophase of mitosi A) the centrioles move toward opposite poles. B) the nucleolus can no longer be seen. C) the nuclear envelope disappears. D) chromosomes are duplicated. E) the spindle is organized.	
7) How is the S phase of the cell cycle measured? A) counting the number of cells produced per B) determining the length of time during which C) comparing the synthesis versus the breaks D) determining when the S chromosome is sy E) stopping G <sub>1</sub> and measuring the number of	n DNA synthesis occurred in the cells down of S protein nthesized
8) Cytokinesis usually, but not always, follows mitosis the result would be a cell with A) a single large nucleus. B) high concentrations of actin & myosin.	<ul> <li>i. If a cell completed mitosis but not cytokinesis,</li> <li>C) two abnormally small nuclei.</li> <li>D) two nuclei.</li> <li>E) two nuclei but with half the amount of DNA</li> </ul>
9) Taxol is an anticancer drug extracted from the Pac microtubule formation by binding to microtubules and precursor, tubulin. Surprisingly, this stops mitosis. Spe A) the fibers of the mitotic spindle. B) anaphase. C) formation of the centrioles.	accelerating their assembly from the protein
<ul><li>10) Movement of the chromosomes during anaphase A)reduces cyclin concentrations.</li><li>B) increases cyclin concentrations.</li><li>C) prevents elongation of microtubules.</li></ul>	would be <i>most</i> affected by a drug that D) prevents shortening of microtubules. E) prevents attachment of the microtubules to the kinetochore.

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