HW Ch 10 Cell Reproduction Worksheet

Fill in the blank: Sister chromatids are attached to each other at the Sequence of DNA that codes for proteins that control an organism's characteristics Proteins that help compact DNA into a 1400nm thick chromosome 4. Phase where cells have left the cell cycle permanently or temporarily A set of stained chromosomes that can be used to tell the sex of the individual is called Location of a gene on a chromosome is called its 7. A human cell has 46 chromosomes, after meiosis each gamete will have chromosomes. The type of asexual reproduction seen in bacteria is called These positive cell cycle regulators, when mutated to increase their activity become oncogenes which are cancer causing 10. A horse has 64 chromosomes in its liver cells; after mitosis each daughter cell will have chromosomes. 11. Is a gamete has one set of chromosomes and is therefore 12. Positive cell regulator proteins that work together to phosphorylate other proteins needed to move the cell cycle through checkpoints 13. Chromosomes 1 – 22 14. Somatic (body) cells use to reproduce, while gametes are made 15. Control points where the cell cycle can be advanced or stopped depending on the state of the cell 16. A fertilized egg is called a 17. Tumor suppressor gene that when mutated is found in over 50% of the human tumor cells 18. A pair of chromosomes, one derived from the egg and the other from the sperm, that have the same genes in the same loci 19. This tumor suppressor gene, when triggered by high levels of p53, binds Cdk/cyclin complexes to block their function, inhibiting the cell cycle 20. Different forms of a gene that code for traits like round or wrinkled pea plant seed. 21. Proteins that wind up DNA into nucleosomes in chromatin fiber 22. Negative cell regulator protein that stops the cell cycle if DNA is damaged 23.X and Y chromosomes 24. Negative cell regulator protein that when active blocks E2F transcription factor from turning on genes needed to move through the cell cycle

Word Bank: each answer is used once:

23	64 alleles			autosomes	binary fission			cdk/cyclin complexes			
cell cycle checkpoints				centromere	condensins		Co	genes		haploid	histones
home	ologou	s chinom	nosomes	karyo	type	locus	meioti	c cell	division	mitotic cell	division
p21	p53	p53	proto-	oncogenes	retin	ioblasto	ma (Rb))	sex chi	romosomes	zygote

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Rob DeSalle

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