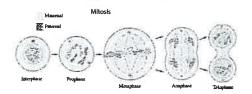
Chapter 10 Cellular Reproduction Prokaryote in our our our or nucleus Review Guide



1. What are the main reasons for Cell Reproduction? Heal + grow

2. What holds the sister chromatids together? centromere

3. List 2 advantages of asexual reproduction. quick Fast

- 4. List 2 advantages of sexual reproduction. Increase variety, dynamic pop
- 5. Explain the difference between a prokaryotic and eukaryotic chromosome.

6. Name the 3 main stages of the cell cycle in order. Interphase - Mitosis - Cytokinesis

- 7. Name the first step of interphase. What happens during this step? G1 Prepare, double organiles
- 8. Name the second step of interphase. What happens during this step? 5 chromosomes duplicated
- 9. Name the third step of interphase. What happens during this step? 62 Prepare for mitosis

10. Name the 2 types of cells that never divide once developed. Muscie therve

11. List the 4 steps of mitosis in order. Prophase-Metaphase-Anaphase - Telophase

12. Describe the first step of mitosis in detail.

- 13. Describe the second step of mitosis in detail.
- 14. Describe the third step of mitosis in detail.
- 15. Describe the fourth step of mitosis in detail.
- 16. Draw a picture of each step of mitosis.

17. What is Cytokinesis? 21 v15/on of the cytoplasm

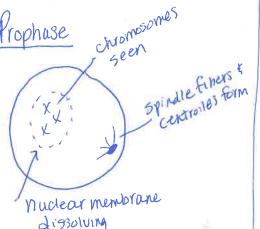
18. What is the end result of the cell cycle? 2 identical daughter ceis

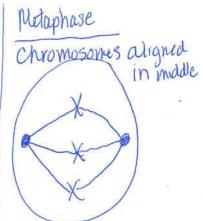
19. How does a plant cell's cytokinesis differ from an animal cell? need to have a cell plate due to cell

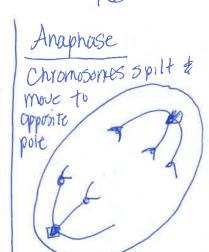
over [below

20. What is cancer? Up Lantrolled growth of ceus

- 21. What is a tumor? mass of cell's
- 22. What is a benign tumor? non-capagous mass
- 23. What is a malignant tumor? concerous mass
- 24. If a cell had 20 chromosomes at the beginning of interphase, how many will it have at the end of interphase? \Box
- 25. If a human skin cell needed to reproduce because of a paper cut (humans have 46 chromosomes in their skin cells), how many will the new skin cell have at the end of cytokinesis?







Telophase nuclear many

Meiosis Review Guide

- 1. What is a gamete? 5 ex ceu
- 2. What type of gametes do females have? ee, q
- 3. What type of gametes do males have? sperm
- 4. Define haploid. I set of chromosomes
- 5. Define diploid. 2 sets of chromosomes
- 6. What is the end result of meiosis I? 2 ceus
- 7. What is the end result of meiosis II? 4 ceus
- 8. Describe what happens during crossing over. Chromosomes exchange parts of chromatids
- 9. How many chromosomes (total) does a human contain in a somatic cell? 46
- 10. How many chromosomes (total) does a human contain in a gamete? 23
- 11. How many pairs of chromosomes are in a human? 23
- 12. What does it mean to have "n" number of chromosomes? haplot &
- 13. What does it mean to have "2n" number of chromosomes? deployed
- 16. What is the major difference between metaphase I and metaphase II? What is the major difference between anaphase I and metaphase II? Metal = not in pairs all.

 17. What is the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaphase I and are in the major difference between anaph
- 17. What is the major difference between anaphase I and anaphase II? Ana I = Pais spirit 18. Compare/contrast mitosis and meiosis usino 4 difference.

- 19. What is the diploid number of a fruit fly if the haploid number is 4?
- 20. A chimpanzee has a total of 38 chromosomes in its hair cells. What is the haploid number? 419 Diploid number? → 38
- 21. An earthworm has a diploid number of 36 what is the somatic number? How many would be in a gamete? → 18
- 22. A pea plant has a haploid number of 7. How many chromosomes are in a diploid cell? 14
- 23. A female golden retriever dog is bred to a male golden retriever dog. How many chromosomes would be in the zygote if the diploid number is 78?

mitosis	neiosis
- asexual	sexual
- identical	different
- 2 culs end	-4 cells eend
- Unuclear division	2 nuclear divisions