Bio K/H: Unit 4 EXAM REVIEW - Meiosis and Genetics

- 1. What did Gregor Mendel prove with his pea plant experiment?
- 2. What does a punnett square show?
- 3. Where is the location of meiosis?
- 4. How many cells begin and end for meiosis?
- 5. How many cells begin and end for mitosis?
- 6. Do DNA from muscle and skin have the same or different DNA? What about the DNA in a gamete?
- 7. What is a tetrad?
- 8. List 3 differences between cell cycle/mitosis compared to meiosis.
- 9. What is the result of meiosis?
- 10. What is the importance of mitosis and meiosis?
- 11. If a cell contains 12 chromosomes, how many chromosomes are in each daughter cell for mitosis? Meiosis?
- 12. What is the result of crossing-over? When does crossing over occur?
- 13. What is haploid?
- 14. What is diploid? Give an example
- 15. What is the human diploid and haploid number?
- 16. What is independent assortment? What does it produce?
- 17. What is the law of segregation?
- 18. What is fertilization? What does it result in?
- 19. What happens in an incomplete dominance problem?
- 20. What diseases are sex-linked?
- 21. What does the term heterozygous mean? Homozygous?
- 22. What does the term recessive mean? Dominant?
- 23. What do the shaded/unshaded shapes on a Pedigree mean? What does a carrier look like?

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24.	Know how to do 1 factor/monohybrid cross. Two eyebrows are dominant to a unibrow. Cross a heterozygous two eyebrows with a unibrow.
25.	Know how to do 2 factor/dihybrid problems. Brown eyes are dominant to green and two eyebrows are dominant to a unibrow. Cross a heterozygous brown eyed person, unibrow with a green eyed unibrow.
26.	Know how to do incomplete dominance crosses. In some flowers, red is incompletely dominant over white. Cross a pink flower with a red.
27.	Know how to do blood type problems. Cross a woman with heterozygous blood type A with a man with heterozygous type B blood.
28.	Know how to do sex-linked problems. Cross a colorblind man with a woman whose dad is colorblind.
	Know how to setup trihybrid problems. What is a pedigree? Know how to draw/track traits.
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