Ann	
Name: 100.	
Period:	

## Mitosis vs Meiosis Assignment

## In each blank, indicate if it is meiosis or mitosis being described:

- 1. Mit No pairing of homologous chromosomes takes place
  2. Produces two daughter cells
- 3. Mit Takes place with one celled organisms
- 4. Meio Forms gametes in eukaryotic cells
- 5. Meio The chromosome number is reduced by half
- 6. Meio Forms egg and sperm cells
- 7. Mit Occurs in most types of eukaryotic cells
- 8. Maintains the chromosome number
- 9. <u>Me io</u> Homologous chromosomes are paired
- 10. Meio Two divisions take place
- 11. <u>Majo</u> Four daughter cells are produced
- 12. Mit Daughter cells are identical to parent cell
- 13. Heio Daughter cells are different from each other and from parent cell
- 14. Hit One division takes place
- 15. What two events determine the number of chromosomes that make the outcome of mitosis and meiosis so different?

Prophase I Homologs pair on No Chromosome replication during Interkinesis

16. Describe the embryo resulting from sexual reproduction if meiosis resulted in the same number of chromosomes as with mitosis.

Each gamete would have a diploid number = affering would have axasmany as parent.

17. Why is crossing over important in sexually reproducing organisms?

Increases variety + diversity by allowing alleles to be exchanged whin a homologouse pair.