Google slides - Meiosis Notes

<https://docs.google.com/presentation/d/19GDM6VHuQlF8XAqDNLtee-AZciFv0CH-pXMeRhSqZ78/present?slide=id.i0>

* Every cell has a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and every nucleus has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The number of chromosomes depends on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Example: Humans have \_\_\_\_\_\_\_\_\_\_\_\_, chickens have \_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are located on chromosomes. Genes control the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the individual. Genotype determines \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Chromosomes come in matching sets called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ pairs. Cells in your body have a complete set (46) and are called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Sex cells (sperm and egg) have only half (23) and are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* When gametes (sperm and egg) combine, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (offspring) gets half from mom (23) and half from dad (23). Zygotes are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(46).



* Review questions:
1. Matching sets of chromosomes are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ pairs
2. Egg and sperm combine to make a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Egg and sperm are both known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. A cell that has only half a set of chromosomes is said to be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Genes are located on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The process of creating a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (sex cell) is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. It is similar to mitosis but will produce \_\_\_\_\_\_\_\_\_\_ daughter cells that are all \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ makes egg (ovum).
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ makes sperm.
* Prophase I:
	+ Homologous pairs form
	+ Chromosomes trade genes – Crossing over
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ increases the number of gene combinations
* The purpose of Meiosis is to:

a)

b)

c)

d)

* Meiosis only occurs in what type of cells?
1. Zygotes
2. Skin cells
3. Gametes
4. Mitochondria