



WBCS MAINS 2022



SCIENCE

CELL

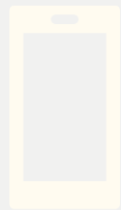
PART-2



LIVE 07:00PM | 25 AUGUST 2022



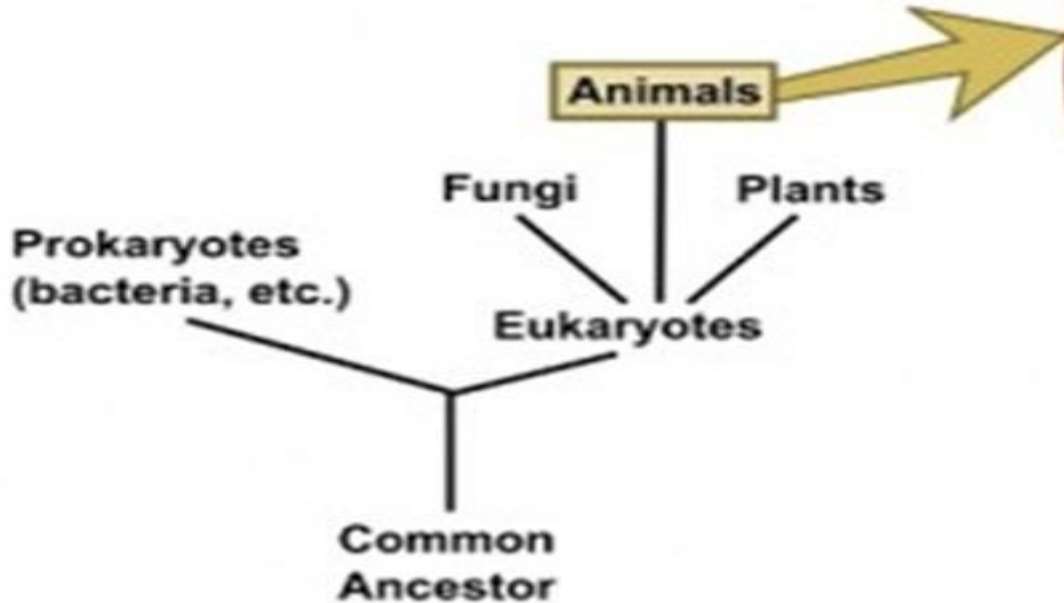
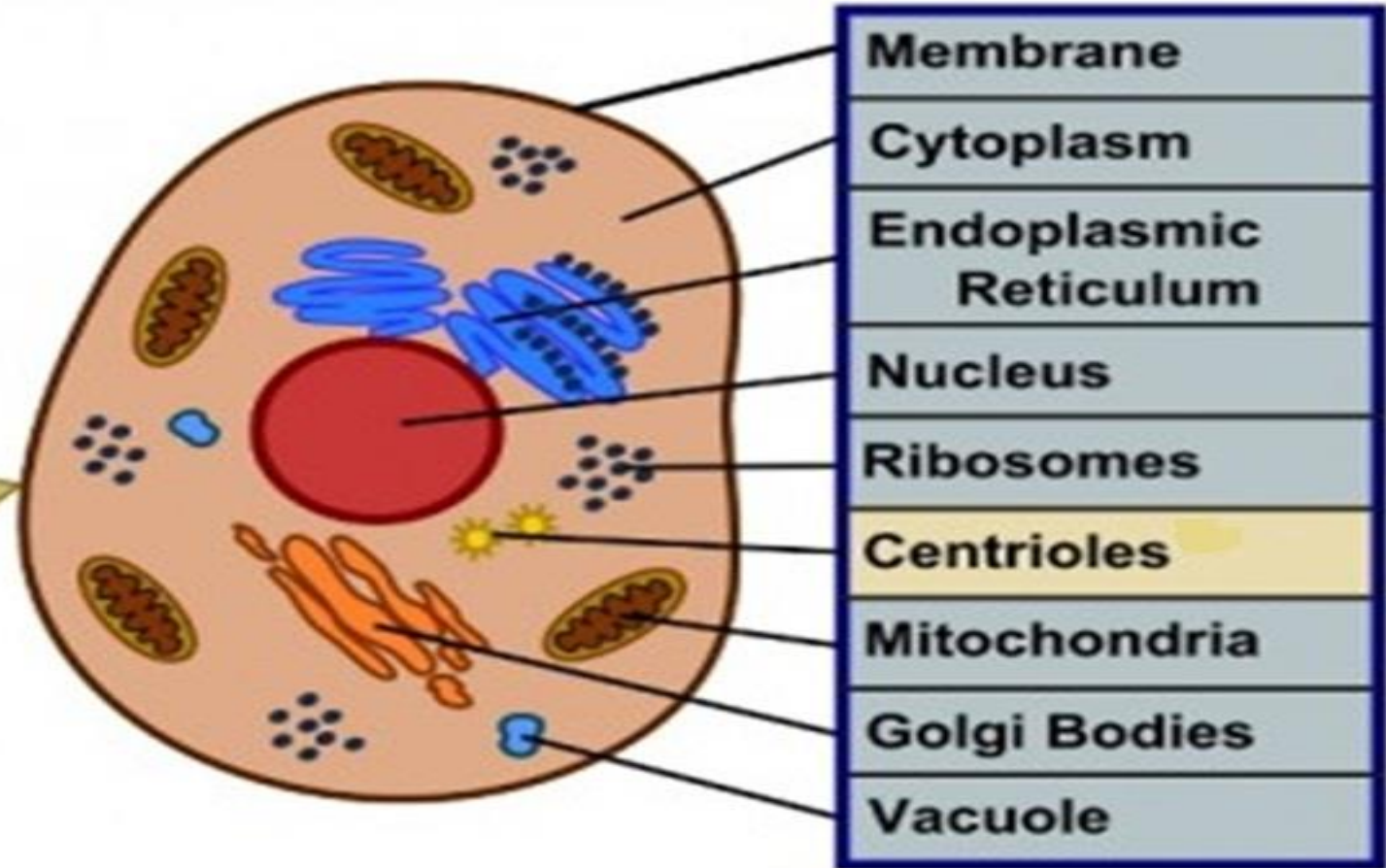
CELL



Eukaryotes

Plant and animal cells are both Eukaryotic (which means that the cells contain a nucleus), and have many structures and functions in common. Compare this animal cell to the plant cell in the diagram below.

Animal Cell



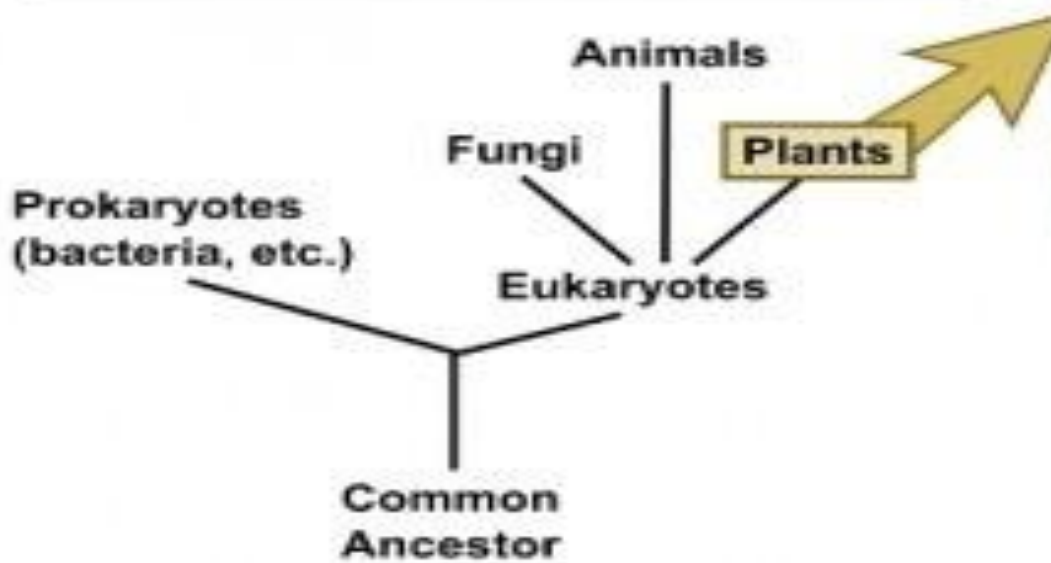
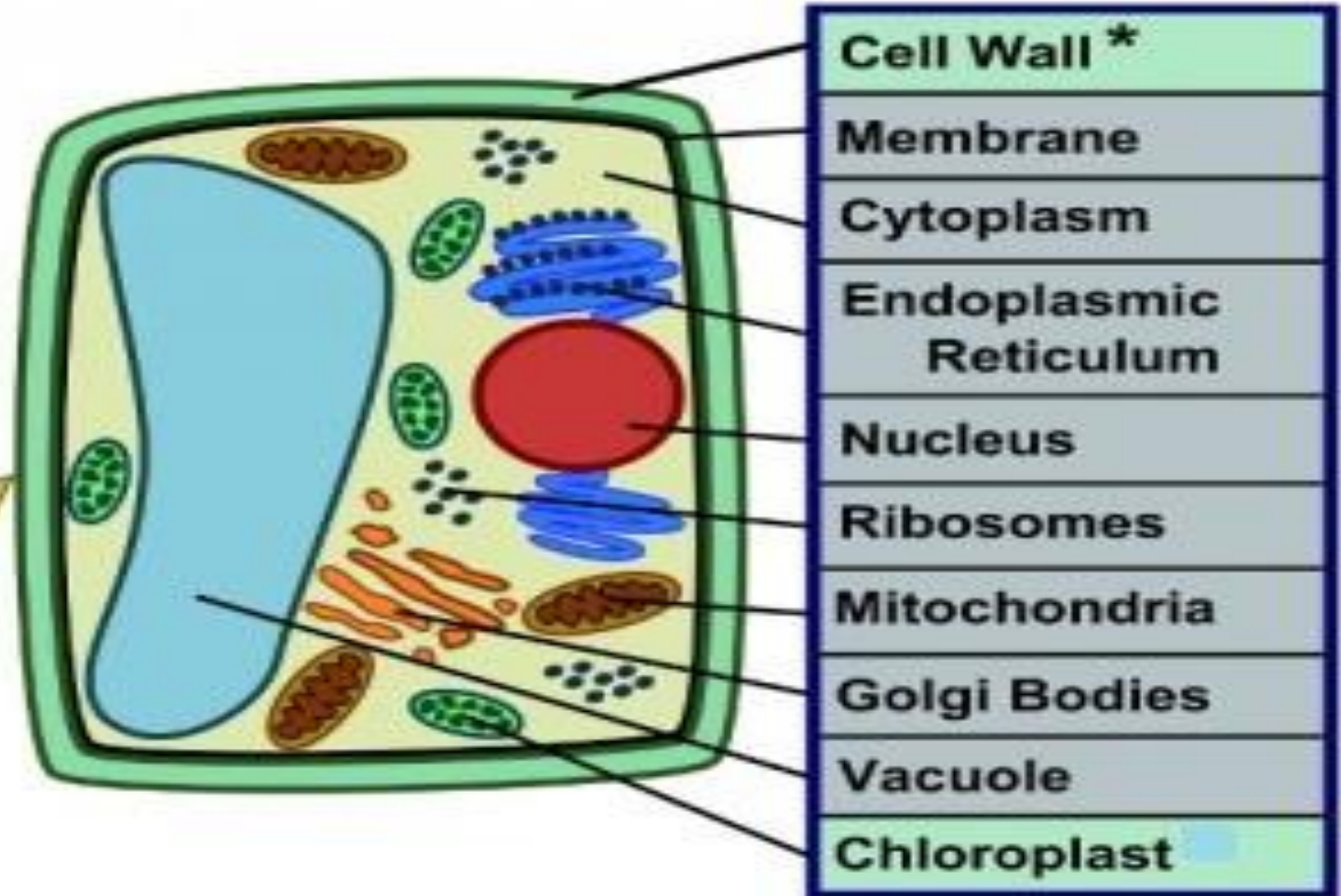
Primary Differences

Plant cells need to perform two functions not performed by animal cells:

1. produce their own food
2. support their own weight

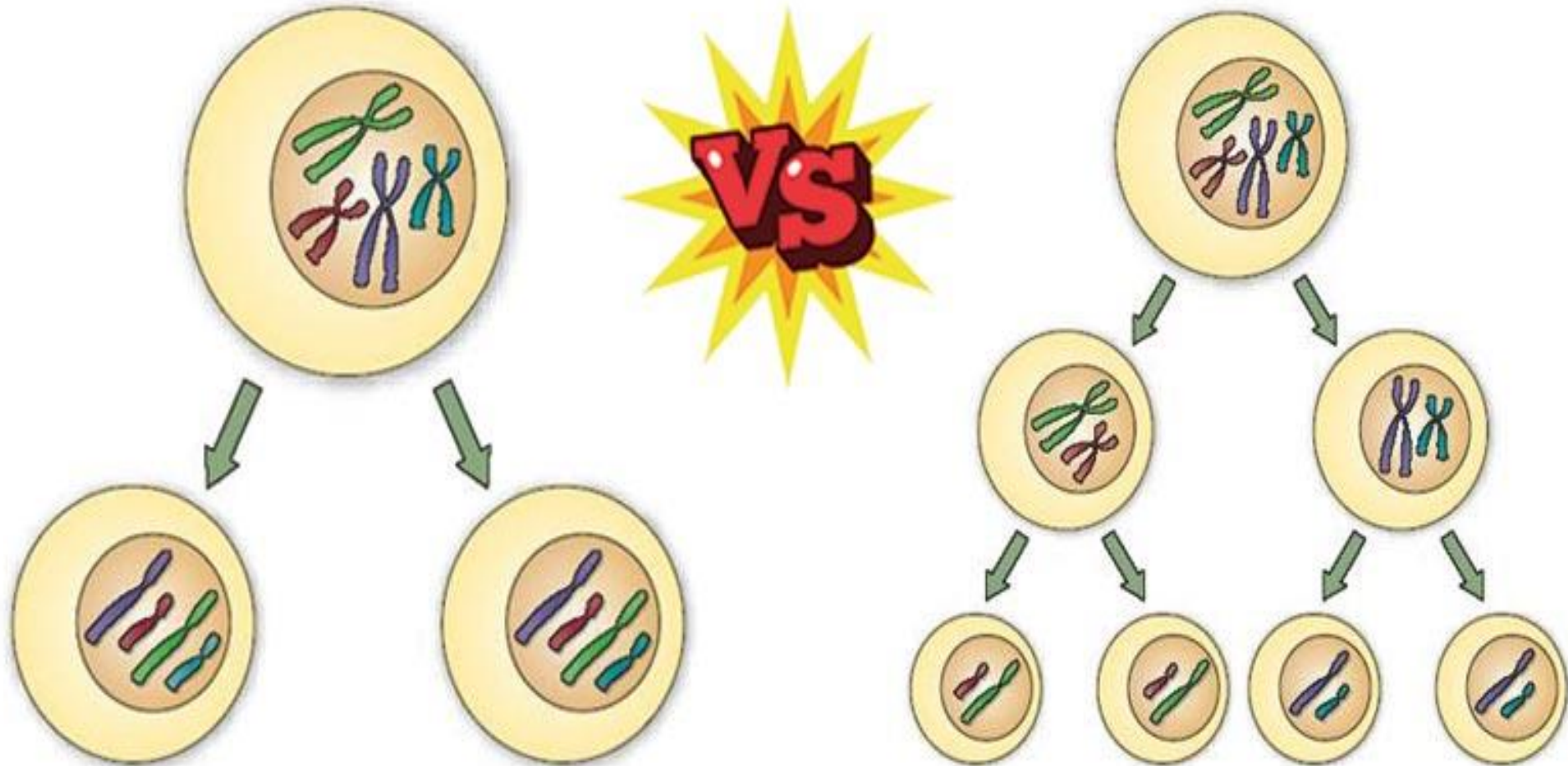
These account for the primary differences between plant and animal cells.

Plant Cell



MITOSIS

MEIOSIS

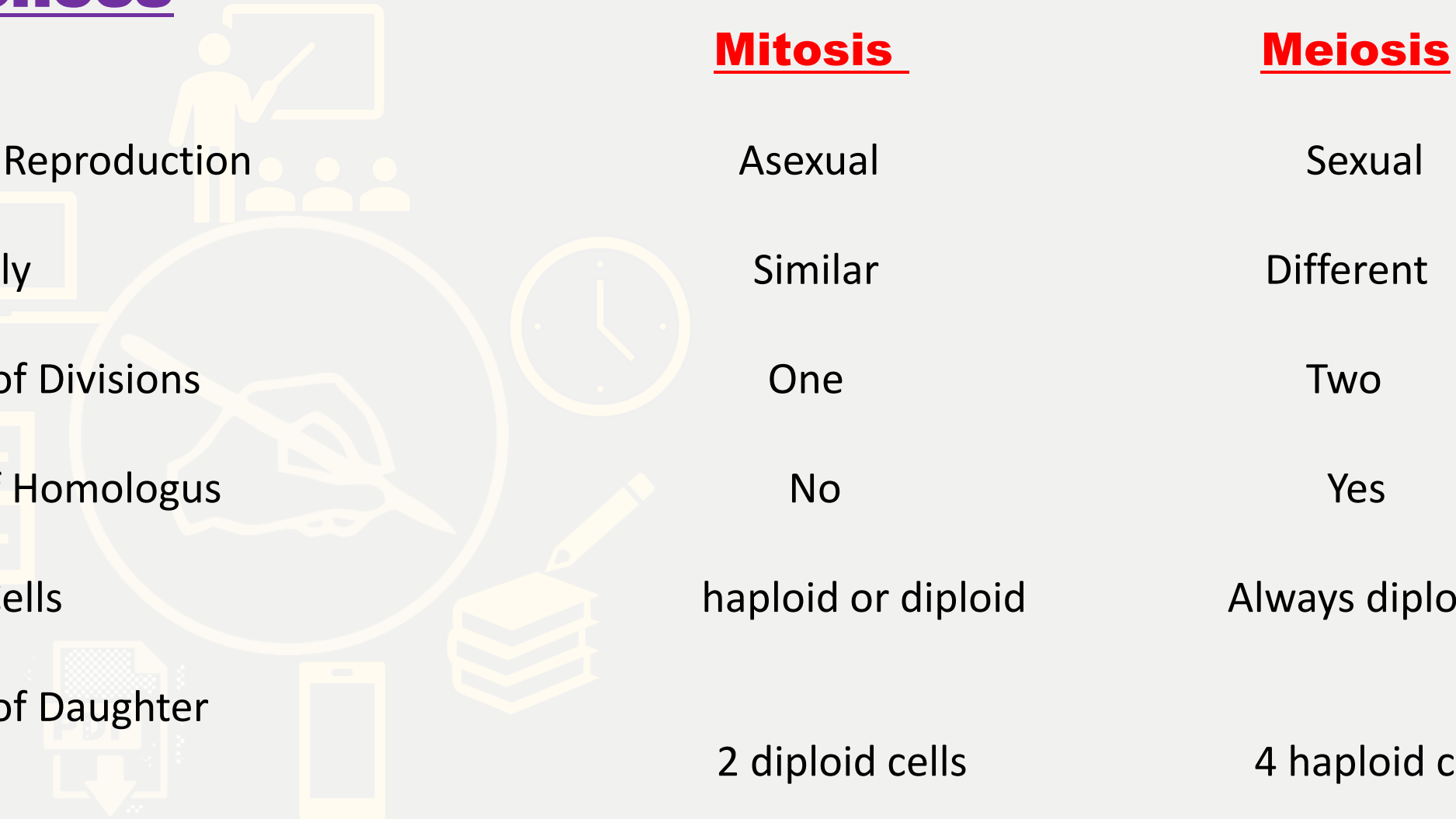




Mitosis is a process of asexual reproduction in which the cell divides in two producing a replica, with an equal chromosomes in each resulting diploid cell.

Meiosis is a type of cellular reproduction in which the number of chromosomes are reduced by half through of homologous chromosomes, producing two haploid

Differences



	<u>Mitosis</u>	<u>Meiosis</u>
1. Type of Reproduction	Asexual	Sexual
2. Genetically	Similar	Different
3. Number of Divisions	One	Two
4. Pairing of Homologus	No	Yes
5. Mother Cells	haploid or diploid	Always diploid
6. Number of Daughter Cells	2 diploid cells	4 haploid cells
7. Chromosome Number	Remains the same	Reduced by half

Thank
you

