

Meiosis vs Mitosis

Compare / Contrast	Mitosis	Meiosis I and II
# of cells at end of division?	2	4
# of chromosomes in end cell? Haploid or diploid	Diploid	Haploid
End cell is identical to parent cell? Yes or No	Yes	No
# of divisions?	1	2
Location in body division takes place?	Somatic (body) cells	Reproductive organs
Purpose of the division?	Copy cells	Make sex cells
Contains homologous chromosomes? Yes or No	No	Yes
Crossing over occurs? Yes or No	No	Yes
Difference between: Prophase and Prophase I and Prophase and Prophase II	<p>Prophase in Mitosis vs Prophase I in Meiosis = homologous chromosomes pair up and cross over in Prophase I and not in Prophase of Mitosis</p> <p>Prophase in Mitosis vs Prophase II = same steps</p>	