

## Comparing Mitosis and Meiosis **KEY**

	<b>Mitosis</b>	<b>Meiosis</b>
In what type of cell does division take place?	<b>Somatic cells (non-sex cells)</b>	<b>Gametes (sex cells)</b>
What is the purpose of division?	<b>Cellular reproduction—Growth and repair of cells</b>	<b>Sexual Reproduction—Create gametes (haploid cells) from diploid cells</b>
How many divisions are there?	<b>1</b>	<b>2</b>
How many daughter cells are produced?	<b>2</b>	<b>4</b>
How many chromosomes are in the daughter cells?	<b>46</b>	<b>23</b>
Are the daughter cells identical to or different than parent cell?	<b>Daughter cells identical</b>	<b>Daughter cells not identical</b>
Does crossing-over occur? If so, during what stage?	<b>No, crossing-over does not occur</b>	<b>Yes, crossing-over occurs during prophase I of meiosis</b>
During what stage do the sister chromatids separate?	<b>Anaphase</b>	<b>Anaphase II</b>