



Mitosis	Both	Meiosis
<ul style="list-style-type: none"> Forms 2 daughter cells from one body cell per cycle 	<ul style="list-style-type: none"> Cell division 	<ul style="list-style-type: none"> Forms 4 daughter cells from one body cell per cycle
<ul style="list-style-type: none"> Creates body cells (somatic cells) 	<ul style="list-style-type: none"> Interphase happens before cell division 	<ul style="list-style-type: none"> Creates sex cells (gametes = sperm + eggs)
<ul style="list-style-type: none"> 1 division/cycle Prophase → Metaphase → Anaphase → Telophase 	<ul style="list-style-type: none"> Movement of chromosomes 	<ul style="list-style-type: none"> 2 divisions/cycles Prophase I → Metaphase I → Anaphase I → Telophase I Prophase II → Metaphase II → Anaphase II → Telophase II
<ul style="list-style-type: none"> identical daughter cells = same DNA in each cell 	<ul style="list-style-type: none"> DNA replication must happen before in S of Interphase 	<ul style="list-style-type: none"> different/unique daughter cells = different DNA in each cell
<ul style="list-style-type: none"> diploid (2n) cells formed = 2 copies of each type of chromosome Ex. 2n = 4  		<ul style="list-style-type: none"> haploid (n) cells formed = only 1 copy of each type of chromosome Ex. n = 2 
<ul style="list-style-type: none"> No crossing over 		<ul style="list-style-type: none"> Crossing over between homologous chromosomes during Prophase I
<ul style="list-style-type: none"> No homologous pairing of chromosomes 		