



**MITOSIS**

**MEIOSIS**

4 stages in total (plus interphase)  
Happens in somatic cells  
Purpose is cellular proliferation  
Produces 2 diploid daughter cells  
Chromosome number remains the same  
Genetic variation doesn't change

Produce new cells  
Similar basic steps  
Start with a single parent cell

8 stages in total (plus interphase)  
Happens in germ cells  
Purpose is sexual reproduction  
Produces 4 haploid daughter cells  
Chromosome number is halved in each daughter cell