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1. Discussion 2: Describe Mendel's two laws and briefly explain which meiotic events account for these laws.
 - **Law of Segregation:** Mendel's first law of heredity. Alternative alleles for the same gene segregate from each other in production of gametes. It happens in Anaphase I in Meiosis I.
 - **Law of Independent Assortment:** Mendel's second law of heredity. Genes located on non-homologous chromosomes assort independently of one another. It happens in Metaphase I in Meiosis I.
 - Monohybrid and dihybrid crosses are used to figure out each law because it helps to determine one (monohybrid) or two (dihybrid) traits depending on what cross you use. All genes and inheritance obey the law of segregation and the law of independent assortment.