

The Punnett square provides a simple method of calculating the probability of a particular genotypic or phenotypic outcome. In these squares, the dominant allele is often indicated by an uppercase letter, and the recessive by a lowercase letter (in this case the single trait is symbolized by the letters CF (or cf)). What are the genotypes of the offspring represented by cells B and D?

		Parent 2	
		CF	cf
Parent 1	CF	A	B
	cf	C	D

**Correct!**

**You said D:**

heterozygous, homozygous recessive

**The correct answer is D:**

heterozygous, homozygous recessive

**Explanation:**

The B cell is CcFf, or heterozygous. The D cell is ccff, and is homozygous for the recessive trait. The offspring represented by the D cell would have cystic fibrosis.