Pedigree Activity Lab

Use the following information to construct a pedigree for the Smith family.

The Smith Family DNA Activity is largely a genetic study of the inheritance of alleles in an extended family. Bob Smith has tested DNA samples from himself and his other relatives. The first task of a human geneticist is the creation of a family tree, or **pedigree** to help with the interpretation of genotypes. From the following relationships, construct a pedigree for Bob and his relatives. The trait being tested for is Red-Green Colorblindness.

Person	Family Relationship	Is Trait Apparent?
Bob	All people are related to him	yes
Anne	Wife	no
David	. Son	no
Katie	Daughter	no
Fred	Father of Bob and Steve	no
Norma	Mother of Bob and Steve	no
John	Maternal Grandfather of Bob	no
Millie	Maternal Grandmother of Bob	yes
Steve	Brother of Bob	no
Karen	Steve's wife	no
Tiffany	Adopted daughter of Karen and Steve	no
Jack	Son of Karen and Steve	no
Tom	Son of Karen and Steve	no
Bud	Brother of Norma; Bob's Uncle	yes
Louise	Wife of Bud	no
Buddy	Son of Bud and Louise	no
Marilyn	Daughter of Bud and Louise	no
Janet	Daughter of Bud and Louise	no
Kelvin	Husband of Janet	no
Jasper	Son of Janet and Kelvin	yes