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Flying Pedigrees

Name:

The ability to fly is a rare and wonderful trait. Flying is considered a recessive trait, while not being able to fly is the dominant trait.

Once upon a time there was a man named Gomer who had the ability to fly. Gomer's unique ability attracted the attention of a beautiful young lady named Zoe. Zoe did not have the ability to fly, but she was a carrier for the trait, which made her heterozygous.

In time Gomer and Zoe had four wonderful children. The first born was a tiny boy who, it turned out, was afraid of heights. Lucky for Frank, he was not born with the ability to fly. But since Frank's dad was a flyer he was a carrier for the trait.

The second born, Billy, was also a son. Unlike his brother though, Billy could hardly keep his feet on the ground. He loved to fly and hardly ever walked. Billy obviously inherited the recessive trait for flying.

Gomer and Zoe were very happy when their next child was a girl. Esmeralda, like her oldest brother, was not a flyer. Although she often tried, she knew that it was a genetic trait and not something she could ever learn. Like her oldest brother, she knew that she was a carrier for the trait and she often hoped that she would someday have a child of her own that was a flyer.

The couple's last child was a surprise. Just when they thought they were done having kids Zoe discovered she was pregnant and gave birth to a beautiful red headed girl. With her bright red hair, Scarlet looked like a fire flashing through the night sky when she flew.

All four of Gomer and Zoe's children grew up happy and healthy. Even though she was the youngest, Scarlet was the first to marry. On an evening flight to the local ice cream shop she met a strapping young flyer by the name of Clark. She and Clark bonded over their love of flying and ice cream and soon married. The couple had their first son, Kent, a

Character	Genotype	Symbol
Gomer		
Zoe		
Frank		
Billy		
Esmeralda		
Scarlet		
Clark		
Kent		
Frank's Wife		
Boy		
Girl		

Need a piece of paper

DIRECTIONS: Complete the chart below and then use it as a guide to create a pedigree for the trait of flying.

Frank, the oldest of Gomer and Zoe's children was the next to marry. Given his fear of flying he was careful to marry a girl who could not fly. He was in love and would have married her no matter what, but was relieved when he met her family and realized that no one in the family could fly. This meant that his soon-to-be wife was homozygous for not flying. The couple had two kids, a boy and a girl. Neither could fly, but the boy was a carrier for the trait while the girl was not.

short time later. Since both of them were flyers they knew before Kent was born that he would have the ability to fly.