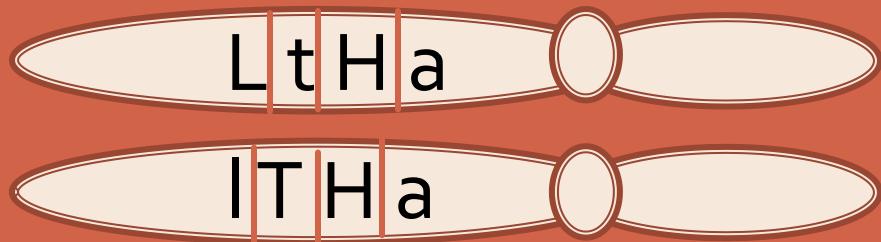


# Warm Up

Below is a homologous chromosome pair from the fertilization between the sperm cell of a male dog and the egg cell from a female dog. Examine the alleles, refer to the table for a description of the traits and answer the questions.



Trait	Dominant Gene	Recessive Gene
Hair Length	Short (L)	Long (l)
Hair Texture	Wiry (T)	Silky (t)
Hair Curliness	Curly (H)	Straight (h)
Coat Pattern	Spotted (A)	Solid (a)

1. Will the new puppy have curly hair?
2. For which traits is the puppy heterozygous?
3. What will be the texture of the puppy's coat?
4. Will the texture of the puppy's coat resemble that of either of its parents?