

# Genetics Packet with Practice Problems

## Section 1: Genes are a Big Part of Genetics!

Cattle include female cows, and male steers. Cattle have 60 chromosomes in their cells. A steer's sperm contains 30 chromosomes, and a cow's egg contains 30 chromosomes. When the sperm meets the egg, a **zygote** is formed. The zygote then divides many times, and develops into a cow or steer.



Chromosome  
From Mother Cow



Chromosome  
From Father Steer



Two of the calf's chromosomes are shown above. It is a **homologous pair** because each chromosome contains **alleles** (versions of a gene) that code for the same traits. One of the chromosomes in the pair come from the mother and one come from the father.

The only difference between the two is that one may have a **dominant allele** (capital letter) and the other a **recessive allele** (lower case) for a given trait. To have a dominant trait the calf only needs to have one copy of the dominant allele. However, to have a recessive trait, they calf must have both copies of the recessive allele.

Use the chromosomes above, the chart below, and your vocabulary list to answer the following questions.

| TRAIT                   | DOMINANT              | RECESSIVE                     |
|-------------------------|-----------------------|-------------------------------|
| Horns                   | Stubby = H            | Long = h                      |
| Body Hair Color Pattern | Solid Color = b       | Spotted = d                   |
| Tail Color Pattern      | Solid = T             | Striped = t                   |
| Hoof Shape              | Claw (split in 2) = A | Single Foot (single hoof) = a |

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**E Durkheim**



**Genetics Problems Packet:**

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