

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

Genetics Problems Packet

Lei Shi



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Genetics Problems Packet: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Genetics Problems Packet : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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