[**SEX-LINKED**](https://www.youtube.com/watch?v=h2xufrHWG3E) **TRAITS** - gene is carried on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1905\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ discovered that not every chromosome has a matching chromosome pair

normal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cell contains 46 chromosomes (2 sets of chr.)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cell contains 23 chromosomes (1 set chr.)

Autosomes = 1st \_\_\_\_\_\_\_\_\_\_\_\_\_ of chromosomes

Sex chromosomes = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ pair of mismatched chromosomes

**XX = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ XY = \_\_\_\_\_\_\_\_\_\_\_\_**

**Eyecolor in male fruit flies – *Drosophila melanogaster***

***XR = red eyes Xr = white eyes***

***Cross: X r Y x X R X r***

**Genotypic Ratio:**

**Phenotypic Ratio:**

**Male Pattern Baldness : Draw the Punnett below☺**

**Sex-linked recessive traits**

**Colorblindness in Humans: Complete the Punnett below**

**Genotypic Ratio:**

**Phenotypic Ratio:**

**Now, Explain why males have these “diseases” more often than females……**

**Blood Relations : Queen Victoria (1819-1901) Hemophilia** is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ inherited disorder in which sufferers lack a necessary protein that allows their blood to clot. The royal families of Europe during the 1800’s and early 1900’s is a good example of how hemophilia is passed from one generation to the next.