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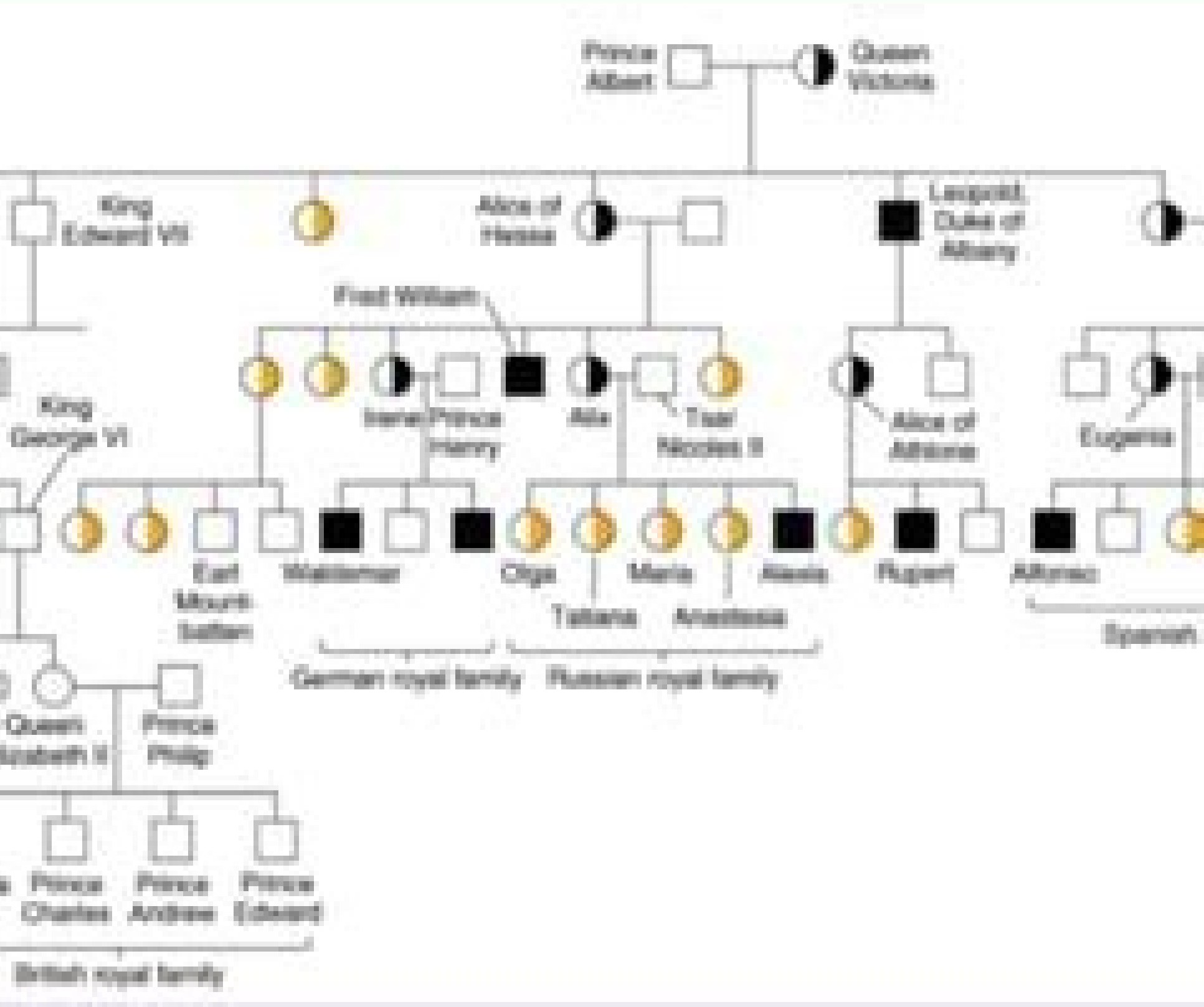
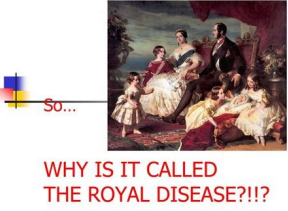
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Pedigree worksheet 3 hemophilia the royal disease answers quizlet answers

**Model 3 - Pedigree of Hemophilia in a Royal Family**

17. Identify the gender and phenotypes of Beatrix and Henry's children.  
 \* Eugenie's phenotype =  $XHXh$ , carrier but normal phenotype  
 \* Louise's phenotype =  $XHXH$ , normal male  
 \* Maurice's phenotype =  $XHY$ , normal male  
 18. Beatrix's daughter, Eugenie, married Alfonso XIII of Spain. Identify the gender and children.  
 Alfonso's phenotype =  $XHY$ , normal male  
 Genaro's phenotype =  $XHY$ , normal male



**Sex-Linked Inheritance**

Colorblindness is a recessive trait based on the X chromosome. In this investigation you will model how sex-linked traits, such as colorblindness, are inherited.

A woman who is a carrier for colorblindness carries a colorblind gene.

- What is the genotype of the women and the men?
- Make a Punnett square to show the all possible outcomes and give the phenotypic ratio.

Obtain a two paper cups, one the size "small" and one the size "tall." The beans to represent the X and Y chromosomes. The white bean represents the X chromosome and the red bean represents the Y chromosome. A dot on the white bean represents a recessive allele for colorblindness.

Randomly pick one bean from each cup to represent how each parent contributes a sex chromosome to a fertilized egg. In four data sets, record the color of each bean and the sex of the individual who would carry that pair of chromosomes. Also record how many X-linked alleles the individual has. Put the beans back in the cups they came from. Repeat this process until you have completed 12 trials.

Trial #	Sex Chromosomes (XX or XY)	Number of Colorblind Alleles	Is the individual colorblind? (Yes or No)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

**Analysis**

- What is expected number of males and females for 12 trials?
- What is the actual number of males and females after 12 trials?
- What is the expected number of colorblind males and females for 12 trials?
- What is the actual number of colorblind males and females after 12 trials?
- Compare your actual and expected numbers for color males and females. Do they agree or disagree? If they disagree, how much do they disagree? What could you do to get closer to the expected results?
- How would the results be different if the man was not colorblind? Use a Punnett square to support your explanation.

**Investigation: A Human Pedigree**

Introduction: A pedigree chart is a diagram that shows the occurrence and appearance, or inheritance, of a particular trait among members of a family. The basic symbols for pedigree charts are squares for males and circles for females. A horizontal line connecting a square and a circle represents a mating. A vertical line extending from the center of a mating line represents the offspring. A horizontal line connecting two vertical lines represents a sibship. A horizontal line connecting two vertical lines represents a mating. A vertical line extending from the center of a mating line represents the offspring. A horizontal line connecting two vertical lines represents a sibship.

1. Think the pedigree to be a family tree. Squares represent males and circles represent females. A horizontal line connecting a square and a circle represents a mating. A vertical line extending from the center of a mating line represents the offspring. A horizontal line connecting two vertical lines represents a sibship.

2. In this pedigree, the trait is dominant. It is indicated by the shaded symbols. The trait is recessive. It is indicated by the unshaded symbols. The trait is dominant. It is indicated by the shaded symbols. The trait is recessive. It is indicated by the unshaded symbols.

3. A pedigree is a diagram that shows the occurrence and appearance, or inheritance, of a particular trait among members of a family.

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9. A pedigree is a diagram that shows the occurrence and appearance, or inheritance, of a particular trait among members of a family.

10. A pedigree is a diagram that shows the occurrence and appearance, or inheritance, of a particular trait among members of a family.

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