

"Simple" Genetic Problems

Springfield residents have been investigating the genetic makeup of the couple living in their community. Once the information provided and your knowledge of genetics, please complete the questions.

1. For each genotype, indicate whether it is a heterozygous (H) or homozygous (H) TT

Genotype: aa, bb, CC, dd, ee, ff, gg, hh, ii, jj, kk, ll, mm, nn, oo, pp, qq, rr, ss, tt

Genotype: AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT

2. Determine the phenotypes for each genotype using the information provided about the Springfield family. Write the phenotype for the given genotype.

Yellow (Y) hair color is dominant to blue

YY yellow yy blue Yy yellow yy blue

Redness (R) in hair color is dominant to red (r)

RR red rr red Rr red rr red



3. For each phenotype, give the genotype that you would use for Prediction Panel. (Heterozygous, Homozygous dominant, homozygous recessive)

A red head (Y is dominant, y is recessive)

Red = YY

Blue = yy



Orange hair (O) is dominant to red (o)

Red = oo

Orange = Oo



4. Determine whether what Lisa Simpson recently learned that Springfield Elementary Principal Hooch wants to investigate. Determine the genotypes for each individual, assuming that his parents (Hooch and Lisa) are heterozygous for the trait. Determine the probability of each child being a carrier of the trait. (Hooch and Lisa are heterozygous for the trait.)

Yy X Yy

YY	Yy
Yy	yy

5. List the possible genotypes and phenotypes for the children.

6. What are the chances of the couple having a child with red hair?

1 out of 4 OR 1/4 %

7. What are the chances of the couple having a child with orange hair?

3 out of 4 OR 3/4 %

Genetics Problems Simpsons

Charles W. Fox, Jason B. Wolf



Genetics Problems Simpsons:

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