Sunday, January 21, 2018 2:46 PM

Sex Linkage

of male = XY & f = XX

- some genes are carried on the X chromosome
- q) colour blindness - male pattern baldness
hemophilia - Duchene muscular dystrophy
coat colour in cats

- Females get 2 genes from X chromosome so Twice the chance of getting the dominant (or recessive) gene.

males only get I chance of those genes; (from the mother), because father contributes a "y"

genetic disorder where blood does not clot excessive bleeding if injured

Symbols & Sexes

XHXH = Female; no hemophila gene

XHXh = Female carrier of hemophilia gene

- phenotype is normal But she can pass him to sons a daughters

Xh Xh : Female with hemophila

X +Y : male : normal

x by = male hemophilia

Fa). A woman and a man with "normal" phenotypes for hemophila, have a son with hemophilia. What are the genotypes of parents a son?

parents: \$ × 6

son:

Eg) If a woman has hemophilia, what are the possible genotypes of her parents?

woman with hemophilia =

Eg) A woman who is a carrier for colour blindness has a child with a man with normal colour vision. What are the likelihoods... their son is colour blind?

Eg) An orange male cot and a black & white cat have a litter of kittens. What 1/0's probabilities of colour & sex for the kittens?

parents. 

x &

Why is there not a black (or black & white) female?

Why are all calico cats female?