CLASSICAL GENETICS QUIZ

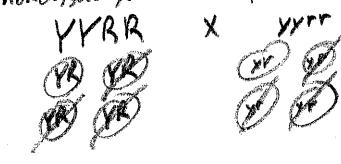
1. In pea plants, yellow seed colour is dominant to green seed colour and round seeds are dominant to wrinkled seeds. If a homozygous yellow-round seed is crossed with a homozygous green-wrinkled seed, what percentage of the F1 generation will be yellow and wrinkled?

NAME

SHOW ALL WORK!

homograms yellow-round & homograms green enrinkly

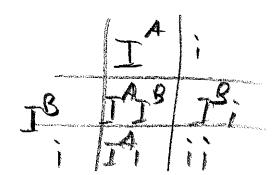
V = yellow R=rord r = wright

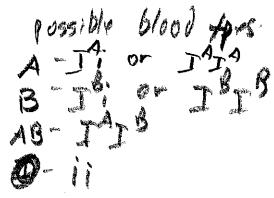


NyBr = yellow round

Old will be yellow wwinkeld

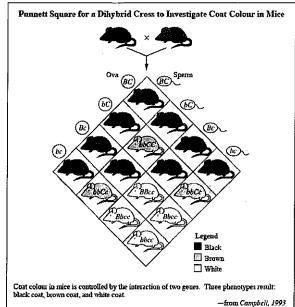
2. A man has blood type A and his wife has type B. A physician types the blood of their four children and is amazed to find one of each of the four blood types among them. He is not familiar with genetics and calls upon you for an explanation. Provide one.





each parent has 9 recossive "ill allele.

5.



if hos'ce then NO codor if hos Co or CC then Yes color

B=block b=biown

en a-bbCo femalé

BbCe BC Bc

What is the expected phenotypic ratio resulting from a cross between a bbCc femal mouse and BbCc male mouse?

Phenotypic Ratio: Coat Colour:

Black

: Brown

White

SHOW YOUR WORK!

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	BC	Be	bC	lec
bС		los i		
bc «		Blee		bicc
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6. Yellow coat color in guinea pigs is produced by the homozygous genotype, cream color by the heterozygous genotype, and white by the homozygous genotype. What genotypic ratio are matings between cream-colored individuals likely to produce? SHOW YOUR WORK!

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yellow-creum-white

1-2-1