

Inheritance Answers

1. $FF \times FF$

	F	f
F	FF	Ff
f	Ff	ff

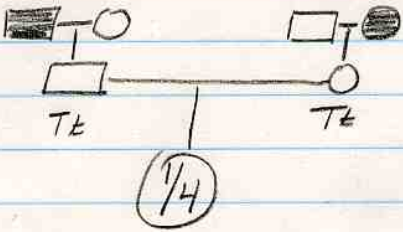
1 FF : 1 Ff
all normal

$FF \times ff$

	F	f
f	Ff	ff

1 Ff : 1 ff
1 normal : 1 CF

2.



$Tt \times Tt$

	T	t
T	TT	Tt
t	Tt	tt

3. $Rh^+ \times Rh^+ \rightarrow Rh^-$
 $Rr \times Rr \rightarrow rr$

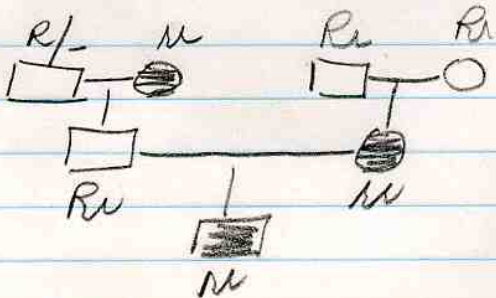
	R	r
R	RR	Rr
r	Rr	rr

4. $Ss \times Ss$

	S	s
S	SS	Ss
s	Ss	ss

$\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} = \frac{1}{64}$

5.



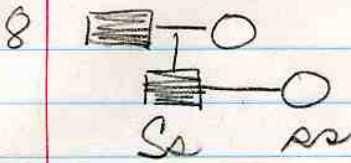
all except paternal
great grandfather

6. Autosomal dominant

$Hh \times Hh$

(H)

7 d.



	S	s
s	Ss	ss

$\frac{1}{2}$

9. $X^B X^b \times X^B Y$

	X^B	X^b
X^B	$X^B X^B$	$X^B X^b$
Y	$X^B Y$	$X^b Y$ dead

2 girls: 1 boy \therefore 10 girls: 5 boys

10. $X^B Y \times X^B X^b$

	X^B	X^b
X^B	$X^B X^B$	$X^B X^b$
Y	$X^B Y$	$X^b Y$

all daughters normal
 $\frac{1}{2}$ sons are color blind

11	XX	1
	XY	0
	XXX	2
	XXYY	1
	XO	0

12. Autosomal recessive

13. Y-linked (holandric)

14. Autosomal recessive