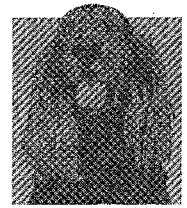
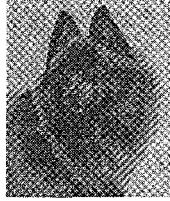
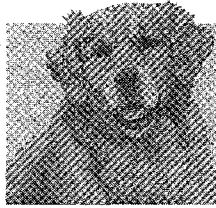
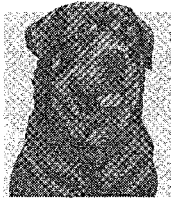


DOG - BLOOD WORK SHEET

PART 1: Here are six dogs. In the small box below each dog write the genes present in the body cells of that dog. Use the letter "B" for black and "b" for brown. Below the diagram put the genes in the 2 sex cells, two sperm for the male dogs and two eggs for the female dogs, use "B" or "b" as appropriate.



Rover
Male Dog
Pure Dominant

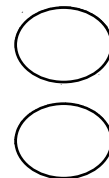
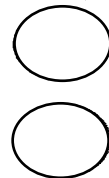
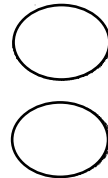
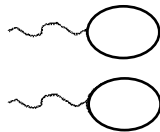
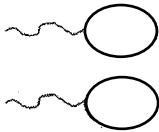
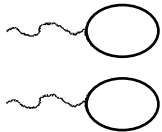
Skipper
Male Dog
Heterozygous

Biscuit
Male Dog
Pure Recessive

Freckles
Female Dog
Pure Dominant

Bruiser
Female Dog
Heterozygous

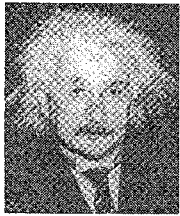
Ginger
Female Dog
Pure Recessive



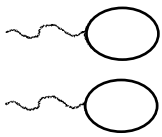
PART 2: Complete the table below for the mating of the indicated dogs.

FATHER	Possible Genes in Sperm	MOTHER	Possible Genes in eggs	All Zygote Combinations	Offspring Color	
					% Black	% Brown
ROVER	B + B	FRECKLES				
ROVER		BRUISER				
SKIPPER		FRECKLES				
SKIPPER		BRUISER				
BISCUIT		BRUISER				
BISCUIT		GINGER				

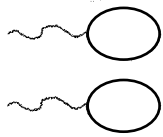
PART 3: Here are six people. In the small box below each write the genes present in their body cells related to their blood type. Assume heterozygous unless told otherwise. Below the diagram put the genes they could put in their gametes.



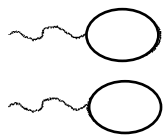
Albert
A - Homozygous



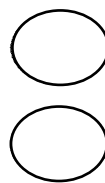
Brad
Type B



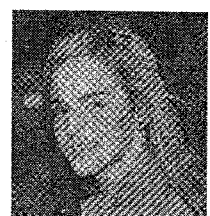
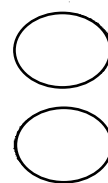
Will
Type AB



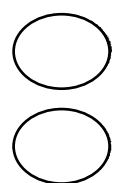
Oprah
Type O



Zoe
Type A



Emma
Type AB



PART 4: Complete the table below for the hypothetical mating of the people indicated.

FATHER	Possible Genes in Sperm	MOTHER	Possible Genes in eggs	All Zygote Combinations	Offspring Blood Type			
					%A	%B	%AB	%O
WILL		OPRAH						
BRAD		EMMA						
BRAD		ZOE						
ALBERT		EMMA						
ALBERT		ZOE						
WILL		EMMA						