Name: Answer Wey	Date:	Section:				
Punnett Square Worksheet 2 (Dihybrid Crosses & Blood Typing)						
You are tracking plant height and flower color in a grodominant to white (p). If you cross a plant heterozygou and heterozygous for flower color, what will the predictions first generation? The tracking plant height and flower color in a grodominant to white (p). If you cross a plant heterozygou and heterozygous for flower color, what will the prediction first generation? The tracking plant height and flower color in a grodominant to white (p). If you cross a plant heterozygous and heterozygous for flower color, what will the prediction first generation? The tracking plant height and flower color in a grodominant to white (p). If you cross a plant heterozygous and heterozygous for flower color, what will the prediction first generation? The tracking plant height and flower color in a grodominant to white (p). If you cross a plant heterozygous and heterozygous for flower color, what will the prediction first generation? The tracking plant height and flower color in a grodominant to white (p). If you cross a plant heterozygous and heterozygous for flower color, what will the prediction first generation? The tracking plant height and flower color in a grodominant to white (p). If you cross a plant heterozygous and heterozygous for flower color, what will the prediction first generation? The tracking plant height and flower color in a grodominant to white (p). If you cross a plant heterozygous and heterozygous for flower color, what will the prediction flower color in a grodominant to white (p). If you cross a plant heterozygous for flower color, what will the prediction flower color. The tracking plant heterozygous for flower color, what will the prediction flower color in a grodominant flower color in a grodomi	up of plants. Tall (Tus for both traits with ted genotypic and posterior to the ted penotypic and posterior to the ted posterior to the	is dominant to short (t) and purple (P) is n a plant homozygous recessive for height whenotypic ratios be for the offspring of the T - fall t-Short P - purple p - White P Trottp to the protection A can divide				
2. Suppose a white, straight haired guinea pig mates with litter have brown fur, but three are curly and two have offspring, where two are curly and four are straight has B-brown b-white C-curly co-straight by BbC BbC BbC by Coffing by BbC BbC BbC by Coffing by BbC BbC BbC by Coffing by BbC	h a brown, curly-hair straight hair. The seried. Use B/b for hair Bback	red guinea pig. All ten offspring in their first econd litter consists of twelve more brown ir color and T/t for hair type.				
Straight Arown	X curly	white = 15%				

3. Fill in the blood type table then answer the questions below.

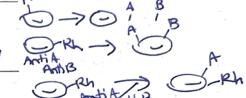
Blood Type	A+	0+	B-	AB-
Antigens	ARM	Kh	B	A, B
Antibodies	AMI-B	Anti A Anti B	Anth	none

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a.	Can a	person	with	type	B+	blood	receive	B+	red	blood	cells?	

b. Can a person with O+ blood receive A- red blood cells?

c. Can a person with AB- blood receive O+ red blood cells?

d. Can a person with type A+ blood receive O+ red blood cells?



4. In her biology class, Reagan completed a blood typing lab. She observed that her blood clumped when she added Anti-Rh, but not when she added Anti-A or Anti-B. Based on these observations, what is Reagan's blood type?

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3. Rh+ is dominant to Rh-. A mother heterozygous for the Rh antigen gene and a father who is Rh- have a child. What is the probability that this child will be Rh+? Draw a Punnett square to help you answer.



4. A mother with A blood and a father with AB blood have a child. What are the possible genotypes of this child?

Nother Could of AAAB

d a father's genotype is BO

What are the possible genotypes of this child?

[TATA, TATB, TALB]

mother's genotype is AO+- and a father's genotype is BO -. Draw a Punnett square to determine their children's

possible genotypes.

A+A-O+O- \B-O-

B- AB+- AB-- BO+- BO--O- AO+- AO-- OO+- OO--

6. Explain why it is dangerous for a Rh- mother to have an Rh+ child.

Mother can build up Anti-Rh antibodies that
can attack baby's blood to cause hemolytic

7. A mother with the genotype AQ++ and a father with the genotype OO-- have four children. Predict the possible genotypes and phenotypes of their offspring. A + AO+- O + OO+- O + OO+- A + AO+- O + OO+- O +

8. An A+ mother and an AB+ father have six children. One of their children is AO--. What is the genotype of the mother? What is the genotype of the father? Explain.

TA; +-