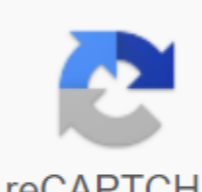


Blood type punnett square worksheet with answers

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Could you help me? I have a question that is not a home issue. I'm a junior in high school. Can a man with type B blood and a woman with AB type release a baby with type O blood? I think not because type O is recessive, and B seems to dominate. My cousin thinks so. Thank you for your help. -- Wiki

Possible genotypes Possible human genotypes with B BB or BO blood group and genotype of a woman with AB blood group. The child will receive an allele A or B allele from the mother and B allele or O allele from the father. Thus, the baby may not be blood type O. The following charts are Punnett squares for two possible combinations, i.e. AB x BB or AB x BO. Biological Project Department of Biochemistry and Molecular Biophysics of the University of Arizona Thursday, October 23, 1997 Contact the development team all the contents of the author's © 1997. All rights are reserved. Transcript for Blood Type Punnett Square Practice There are four main blood groups determined by the presence or absence of two antigens (proteins) - A and B - on the surface of red blood cells: Group A - has only antigen on red cells (and B antibodies in plasma) Group B - has only B antigen on red cells (and antibodies in plasma) Group AB - has both A and B antigens on red cells (and antibodies in plasma) neither B antibodies in plasma) Group O - has neither A nor B antigens on red cells (but both A and B antibodies are in plasma) Since foreign antigens can cause a patient's immune system to attack blood transfusions with antibodies, safe blood transfusion depends on a thorough blood set and cross-comparison. There are 3 allele genes that control the blood group: IA, IB, I advocate for immunoglobulin, or the type of white blood cells that will be caused to attack. IA and IB are co-Dominant genes, meaning that when they are inherited together, they are both fully expressed rather than mixed as in incomplete dominance. i is a recessive form of allele. Possible genotypes are as follows: Genotypes Blood Type A A A I I or I i A IBIB or IBi B IAIB AB ii O Agglutination An additional complication in blood typing is that there is a third major antigen called the Rh factor. If you have rh antigen as well, we say you rh +. No rh antigen, you rh -. Each of the four types of blood A, B, AB, O can come with or without the Rh factor. We won't deal with the Rh factor in the following genetics problems. Purpose: Show square punnett and phenotypic ratios for the following crosses: 1) Both fathers and mothers have blood type O. ii ii x ii ii phenotypic ratio: ii ii ii ii 2) Father of the type of homoziго, mother type B gomosigo. A A B B B B I I I I x I I I I A Phenotypic Ratio: I I A I A : B : AB : O A IB B A I A I B A A I I O: 4 : 0 3) Отец типа heterozygous, мать типа B heterozygous. A B B i I I i x I i A A A B I I I I Phenotypic Ratio: A : B : AB : O 1:1: 1 :1 i i B i i i 4) The father has type O blood, the mother has type AB blood. A B A B ii x I I I I A I I I Phenotypic Ratio: A : B : AB : O 2:2: 0 : 0 i A I i B I i B I i 5) Both the father and mother have type AB blood. A B A B I I I I x I I I I A I Phenotypic Ratio: B I I A I A A I I A B I I B AB I I I B B I 6) Alice has type A blood and her husband Mark has type B blood. У их первого ребенка, Аманда, кровь типа O. Их второй ребенок, Алекс, имеет тип крови AB. A I What — генотип Алисы? Вопрос: B Что такое генотип Марка? I i Show how you found the answer by completing the Punnett square(s) below: I A B I A B I I I i A i B i I i i 7) Candace has type B blood. У ее мужа Дэна кровь типа AB. НЕТ Это возможно для Кэндис и Дэн иметь ребенка, который имеет O крови? Объясните, почему или почему нет (используйте квадрат Пуннетта, чтобы помочь). B I I B B I I I или I I I A B B I I I I I возможные фенотипы: A, B или AB i I I I I B i 8) Ральф имеет кровь типа B, а его жена Рейчел имеет тип крови. Они очень потрясены, услышав, что их ребенок имеет тип крови O, и думаю, что переключатель, возможно, были сделаны в больнице. Может ли этот ребенок быть их? Объясните, почему и почему нет (используйте квадрат Пуннетта, чтобы помочь). YES possible phenotypes: A, B, AB or O I B A I A I IB i A I i i IB i i i

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