


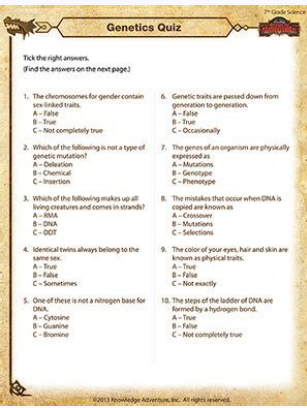
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Blood type genetics problems worksheet answers



Name: _____ Date: _____ Period: _____

Blood Type Review Worksheet

Use your notes if needed to help answer the following questions.

1) Circle the **antigens** that would exist on red blood cells if a person was type AB- blood.
A antigen B antigen Rh antigen

2) Circle the **antibodies** that would exist in blood plasma if a person was type AB- blood.
A antibody B antibody Rh antibody

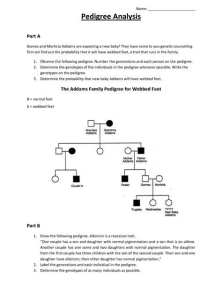
3) Which blood type would only have Rh and A **antigens** on the surface of red blood cells?
A+ A- B+ B- AB+ AB- O+ O-

4) Which blood type would have no Rh **antigens**, but only have B **antigens** on the surface of red blood cells?
A+ A- B+ B- AB+ AB- O+ O-

5) Which blood type would only have Rh and B **antibodies** flowing through blood plasma?
A+ A- B+ B- AB+ AB- O+ O-

6) Maxwell has lost a lot of blood and needs a transfusion. Doctors at the hospital have identified that he has A- blood type, which means he also has B and Rh antibodies in his plasma. Circle blood types he can safely receive?
A+ A- B+ B- AB+ AB- O+ O-

7) A person who has B+ blood has the B and Rh antigen on their red blood cells. Circle the blood types that should not receive B+ blood in a transfusion.
A+ A- B+ B- AB+ AB- O+ O-



The trait is autosomal recessive.
The question is: What is the probability that the bottom 2 people (4 and 5) have a child with the trait?

Here is a pedigree:

Handwritten notes on the pedigree:

- Generation I: I-1 is Aa, I-2 is Aa.
- Generation II: II-1 is Aa, II-2 is aa.
- Generation III: III-1 is AA, III-2 is AA.
- Generation IV: IV-1 is aa, IV-2 is aa.

Handwritten Punnett square for the cross of I-1 and I-2:

A	a
A	AA
a	Aa

Handwritten Punnett square for the cross of II-1 and II-2:

a	a
A	Aa
A	Aa

Handwritten Punnett square for the cross of III-1 and III-2:

A	A
A	AA
A	AA

Handwritten notes on a worksheet:

Type AB blood: BB or BO

Type O blood: OO

Cross a type O person and a heterozygous type A person

Geno MA = OO

Handwritten Punnett square for the cross of a type O person (OO) and a heterozygous type A person (Aa):

O	O
A	Aa
a	Aa

Let's take a look at what you need to know about determining your blood type and what you can expect to find on your birth certificate. Vital Statistics on Birth Certificates Your state's vital records office can tell you exactly what is included on the state's birth certificates. Rh negative blood can transfer to both negative and positive blood types, but Rh positive must match with positive. Surprisingly, the baby's birth weight is not usually included on a birth certificate. Birth certificates are public records and can be obtained from the registrar's office in the county where the birth took place. Your birth certificate has a lot of personal information on it and should be safeguarded. In addition to defining transfusion compatibility, blood types have also been associated with certain health risks. Here are five fascinating things your blood type can tell you about your health, according to experts. That means the universal donor, Type O Negative, can be given to all blood types — positive and negative — and Type O Positive can be given to all positive blood types. They also have lower success rates with in-vitro fertilization implantation. While having type O blood doesn't guarantee fertility issues, talk to your doctor if this is a possible concern for you. 3Cancer Risk 4Memory Parts of your cognition can also be determined by your blood type. If you lose it or someone steals it, it could put you at risk of becoming a victim of identity theft. However, peace of mind is never a bad thing, and learning your blood type isn't difficult. Testing Your Blood Type If you donate blood frequently, the blood bank already has a record of your blood type. The USA.gov website provides links to different states' information in one convenient location. Photo Courtesy: Rui Vieira/PA Images/Getty Images Different Blood Types If you prick your finger, your blood doesn't look any different than anyone else's blood, but that all changes at a cellular level. Type O Positive is the most common blood type, accounting for 37% of the Caucasian population, 47% of African Americans, 39% of Asians and 53% of Latinos. "Data suggests that having type O blood lowers your risk for heart disease," Dr. Tania Elliott, allergist and Chief Medical Officer of EHE, tells Bustle. Photo Courtesy: Choja/E+/Getty Images If you were born in the United States, then the state you were born in created a record of your birth and stored it with all the state's other vital records. Photo Courtesy: Jeffrey Coolidge/Stone/Getty Images In most cases, birth certificates also include the mother's maiden name and her age and birth location, the father's age and birth location, time of birth, type of birth (single, twins, etc.), parents' address, and city, county and state of birth. The science behind this gap is not fully known, but other research links type AB with inflammation and type A with higher LDL cholesterol levels, both of which can elevate heart disease risk. Of course having a certain blood type doesn't predispose you to heart disease, but it is important to be mindful of these trends. "Type AB is more frequently linked to the development of memory issues and dementia," says Elliott. Type A's rate is five percent higher than O. Type O flips the AB composition around and has A and B antibodies in the plasma but neither type of antigen in the red blood cells. Most of us don't spend too much time thinking about our blood type unless we are in our doctor's office, but our blood type is a component of our health worth looking at. Type AB blood has both A and B antigens in the red blood cells, but neither type of antibody is present in the blood's plasma. "The type correlates with an increased concentration of von Willebrand factor in the blood, making someone more susceptible to clotting. Type AB can only be given to Type AB, but Type AB can receive both Type A and Type B along with Type O. It's also common for schools and sports leagues to ask for birth certificates to confirm age. If you're not squeamish and feel a bit brave, you can order a DIY blood testing kit online to learn your blood type quickly — once the test arrives, of course. Photo Courtesy: Amazon MORE FROM REFERENCE.COM In all cases, the birth certificate includes the full names of both parents (if known), the baby's full name, gender, date of birth and place of birth (usually noted as county and state). In most cases, the registrar charges a fee for certified copies of birth certificates. If you've never donated before, it's a worthy and much-needed donation that also leaves you with the opportunity to ask about your blood type for free. Your blood type is one important detail that isn't included in your vital statistics, but that doesn't mean you're out of options. When one parent is Type A and the other is Type B, the child could have any of the four blood types. Antigens activate immune responses to foreign substances in your body, and your blood type depends on whether you have or don't have certain antigens. However, in the blood's plasma, this reverses for antibodies, and Type A has B antibodies, while Type B has A antibodies. 5Stroke Risk If you have type AB blood, you also might be at a higher risk for stroke. Unfortunately, this blood type isn't common, only accounting for 8% of Caucasians, 4% of African Americans, 1% of Asians and 4% of Latinos. The Importance of Blood Type In the U.S., a surprising number of people don't know their blood type. For the most part, your blood type doesn't affect anything besides determining the type of blood you would need in a transfusion. You could also schedule an appointment with your physician, but the cost will stack up once you pay for the office visit and then the lab work. Additionally, the Rhesus (Rh) factor protein is either present (positive) or absent (negative) in your blood. Photo Courtesy: Westend61/Getty Images Although it may worry you to realize you can't quickly blurt your blood type in a crisis, it really isn't a dangerous problem. You inherit your blood type based on the blood types of your parents, but at least two possible outcomes could occur in most cases, with two notable exceptions. For convenience, all the key information related to individual births in America are easily accessible by obtaining a birth certificate. When time is too short for testing in the middle of an emergency, doctors can use universal donor blood (O Negative) to save lives. Although there isn't much science supporting things like specific lifestyle choices for blood types, there are some studies that indicate how your blood type can predict your risk for certain diseases. The correlation may have something to do with a blood-clotting protein usually found in higher levels in AB. Although it is important to remember that many other facts can contribute to memory issues or dementia outside of blood type. Most states and counties have transitioned all their records to digital records, making it possible to order certified copies of birth certificates online in most cases. 1Heart Disease Risk Your blood type may be able to predict how likely you are to have heart disease. "Blood type, generally defined as the presence and combination of A, B and Rh D antigens presented on your red blood cells, matters because it determines which blood type you can receive during a blood transfusion," Chief Science Officer and co-founder of LifeVault Bio/GoodCell, Brad Hamilton tells Bustle. The exact information on a birth certificate can vary slightly from state to state, but most states have a lot of the same key details about your birth. Unfortunately, if you don't know your blood type and hope your birth certificate will solve the mystery — it won't. "According to one study, people with AB blood are 82 percent more likely to have cognitive impairment than people with other blood types. When both parents are Type O, then the child will only be Type O. "Studies indicate that type O women are at double the risk of diminished ovarian reserve, meaning fewer eggs," says Elliott. Type A and Type B must receive their matching types or Type O. These important documents are a key component in establishing and proving identity in the U.S. You will need a copy of your birth certificate to apply for a driver's license, U.S. passport, social security card (at least the first time), marriage license (some states) and certain jobs. "People with type AB blood have a higher risk of venous-blood clotting," says Elliott. "If you receive the wrong blood type in a transfusion, your body can potentially reject the blood cells transfused with fatal consequences for the recipient. Photo Courtesy: Choja/E+/Getty Images Type A blood only has the A antigen present in red blood cells, while Type B blood only has the B antigen in red blood cells. Certified copies — the only type accepted for legal purposes — will always contain the official embossed city, county or state seal. There are a number of fascinating things your blood type says about you and your health, so it can be interesting to know your blood type and figure out how to work with what your genes have given you. "Type AB is associated with a 23 percent higher incidence and type B with an 11 percent higher risk. Informational copies don't contain this seal and are usually issued by hospitals and not state or county offices. The record of live birth also has a record number assigned by the registrar. Additional details for some states include race, hospital and the name of the physician who delivered the baby. 2Fertility Women with type O blood are more likely to have fertility issues than women with other blood types. This, in turn, makes AB blood patients more likely to suffer related issues like stroke and deep-vein thrombosis. "Though it is important to remember that having a certain blood type doesn't predict the certainty of any diseases, knowing your blood type can help shed some light on different aspects of your health. Your letter type and Rh factor determine which blood types you can receive in a transfusion. Known as the universal donor, Type O Negative blood can be transfused into patients with any blood type. The four major blood groups — A, B, AB and O — contain different combinations of the two antigens, A and B. In some instances, a baby's hand or footprint is also included on the birth certificate, although this is much more common on keepsake certificates produced by hospitals.

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