

**If Tom Harris had type AB blood and Mary had type O, could the type O child they brought home be their child? \* No, the baby would have to have inherited a gene for O from both parents and Tom has only a gene for A or B. Yes, both parents had the recessive hidden gene for O blood in their genotype which they passed on to the baby. No; the baby would have to have Type AB blood that it inherited from the father since A and B are dominant to O. Yes; the baby inherited type O blood from the mother Mary Harris which is dominant to the genes for both A and B.**

**Answer 1**

Answer:

The study of blood is called **hematology**. The component of blood is **RBC, WBC, platelets, and plasma**.

The correct answer to the question is option B.

**What is a blood group?**

- A blood type is a classification of blood, based on the presence and absence of **antibodies** and **inherited antigenic** substances on the surface of **red blood cells**.
- These antigens may be **proteins, carbohydrates, glycoproteins**, or glycolipids, depending on the blood group system.

The genes A and B are dominant over O therefore the **O blood group** can not be seen in offspring.

Hence, the correct answer to the question is option B is Yes, both parents had the **recessive hidden gene** for O blood in their genotype which they passed on to the baby. No; the baby would have to have Type AB blood that it **inherited** from the father since A and B are dominant to O.

For more information about the blood group, refer to the link:-

[brainly.com/question/787658](https://brainly.com/question/787658)

### **Answer 2**

Answer:

### **Explanation:**

No, the baby would have to have inherited a gene for O from both parents and Tom has only a gene for A or B.

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1. [Home](#)
2. [if-tom-harris-had-type-ab-blood-and-mary-had-type-o-could-the-type-o-child-they-brought-home](#)