





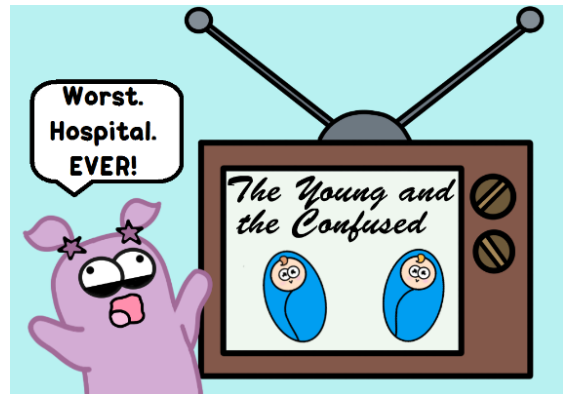
Amoeba Sisters Video Recap: Multiple Alleles (ABO Blood Types) and Punnett Squares

For the following boxes, fill in the below information regarding each blood type.

<p style="text-align: center;">Blood Type A</p> <p>1. Phenotype: _____</p> <p>2. Possible Genotype(s): _____</p> <hr/> <p>3. If the A type red blood cell below has any blood type antigens on its surface, please draw them below and label. If not, leave blank.</p> <div style="text-align: center;">  </div>	<p style="text-align: center;">Blood Type B</p> <p>4. Phenotype: _____</p> <p>5. Possible Genotype(s): _____</p> <hr/> <p>6. If the B type red blood cell below has any blood type antigens on its surface, please draw them below and label. If not, leave blank.</p> <div style="text-align: center;">  </div>
<p style="text-align: center;">Blood Type AB</p> <p>7. Phenotype: _____</p> <p>8. Possible Genotype(s): _____</p> <hr/> <p>9. If the AB type red blood cell below has any blood type antigens on its surface, please draw them below and label. If not, leave blank.</p> <div style="text-align: center;">  </div>	<p style="text-align: center;">Blood Type O</p> <p>10. Phenotype: _____</p> <p>11. Possible Genotype(s): _____</p> <hr/> <p>12. If the O type red blood cell below has any blood type antigens on its surface, please draw them below and label. If not, leave blank.</p> <div style="text-align: center;">  </div>


Name Those Parents:

Hospitals typically have excellent measures in place to prevent mix-ups, but one baby was not so lucky. The hospital has narrowed down that baby Anthony must belong to one female and one male in the below list, although the hospital also does not know which individuals are couples. Find Anthony's parents!



Possible Parents:

Natasha (female) Blood Type: B	Adrienne (female) Blood Type: AB	Rafael (male) Blood Type: O	Joshua (male) Blood Type: AB
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Baby Anthony  Blood Type: O	13. Anthony's genotype: _____ _____	14. His mother from above list (list name): _____ 15. Her genotype: _____ _____	16. His father from above list (list name): _____ 17. His genotype: _____ _____
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18. Draw the Punnett Square below that shows the cross between the mother and father you selected.

19. What is the percent chance in the Punnett square that you drew of having an O baby? _____

20. Can a baby that has blood type AB have one parent that is type O? Why or why not? If it is difficult to explain, try explaining with a Punnett Square diagram.