

Three friends Anita, Becca, and Charleston are challenged to a game by the Game Maestro. The Game Maestro places two colored dots on each of the friends' foreheads and tells the friends that each dot is either blue or yellow, but neither color is used more than four times. He then places the three friends in a circle so that each of them can see the dots on their friends' foreheads, but not on their own. The game proceeds like this: The Maestro will ask the friends in turn, first Anita, then Becca, then Charleston, then Anita again, then Becca again, and so on, if they know the colors of the dots on their foreheads. When someone responds "no," the Maestro asks the next person. If someone responds "yes" and is right, the friends win! Whereas if someone responds "yes" and is wrong, all three friends will be banished to the shadow realm.

The friends weren't given time to strategize, but they begin playing. Their responses in turn are

no

no

no

no

yes

and the three friends win! What are the colors of the dots on Becca's forehead?