

Name: _____

Date: _____

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Soap Opera Genetics

For this assignment, you will determine how a baby could be albino through hearing the gossip on the lives of Tiffany and Joe, whose lives are a real life soap opera. Read the dialogue to learn about albinism and answer all of the questions.

Scenario:

Tiffany and Joe have just had a baby and are shocked to discover that the baby is albino with very pale skin and hair color. Tiffany's sister, Kelly, comes to visit her in the hospital, giving Joe a chance to go in the hallway to talk to his sister, Vicky.

Joe is very angry. He tells Vicky, "I think Tiffany had an affair with Fred! He's the only albino we know. Obviously Tiffany and I aren't albino, so Fred must be the father."

Luckily, Vicky is a biology professor, so she explains how two parents with normal skin color could have an albino baby. She draws a Punnett square to illustrate her explanation.

1. In the space below, draw a Punnett square to show how two parents with normal skin color could have an albino baby. Use *a* for the recessive allele that can result in very pale skin and hair color, and *A* for the dominant allele that results in normal skin and hair color. Be sure to include all ratio calculations.

