

A school district with three high schools, (M, H, and R) instituted a school choice program two years ago. The trends of students moving among the schools has been:

*15% of the students at M transfer to H and 10% transfer to R*

*15% of the students at H transfer to M and 5% transfer to R*

*5% of the students at R transfer to M and 10% transfer to H*

Assume that these trends continue.

1. If M currently has 50% of the students, H has 30% and R has 20%, what will the distribution of students be after 1 year? 3 years? 10 years? 20 years?
2. How does the answer change if currently M has 10%, H has 20% and R has 70%?
3. What if *all* students are currently enrolled at R?
4. What will the impact be to the scenario in #1 if M improves its retention so that 10% of its students transfer to H and 5% transfer to R?