39. Two cars leave a town at the same time and travel in opposite directions. One car travels at the rate of 45 miles per hour, and the other at 55 miles per hour. In how many hours will the two cars be 350 miles apart?

43. The length of a rectangle is 1 inch less than three times the width. If the length is increased by 6 inches and the width is increased by 5 inches, then the length will be twice the width. Find the dimensions of the rectangle.

49. A financial advisor invested an amount of money at an annual rate of interest of 9%. She invested $2700 more than this amount at 12% annually. The total yearly income from these investments was $1794. How much did she invest at each rate? (Note: Use the formula \( I = Prt \), where \( I \) is the interest earned on the principal of \( P \) dollars invested at the rate \( r \) (in decimal form) per year. In this case the time, \( t \), is 1 year.)

51. Leslie paid $9010 for a used car, which included a 6% sales tax on the base cost of the car. What was the cost of the car, without the sales tax?