The Westfall Youth Baseball and Softball League charges the following registration fees: ages 7-8, \$45; ages 9-10, \$55; and ages 11-14, \$65.

- Write a matrix for the registration fees and a matrix for the number of players.
- 22) Find the total amount of money the League received from baseball and softball registrations.

Team Members		
Age	Baseball	Softball
7–8	350	280
9–10	320	165
11-14	180	120

Set up the matrix for the number of players



Notice that the players matrix has the dimensions $3x^2$ so we need to keep that in mind as we make the matrix of the fees. We know that we have 3 different prices that are charged and we know that in order to multiply matrices together they must share the middle value. So let's look at the possible fee matrices we could have

45 55	65]
IX3	



So now let's see how we need to combine them base on dimensions. $3\times2.1\times3$ doesn't work $3\times2.3\times1$ doesn't work $1\times3.3\times2$ Works

In order for the dimensions to work we must multiply the 1×3 by 3×2 (x3 3 X 2 |X2

[45 55 65] X [350 280 X 320 165 180 120

