

## Section 1.1

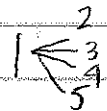
(2) understanding the problem:

There is five people in the racquetball tournament. Every persons needs to play every other person at least once. Job is to determine how many games will be played. There will be over five games played

Devise a plan: Make a diagram to represent the five players then place other players in to get the total amount of games

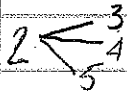
Carrying out the plan:

player 1

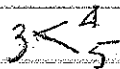


Total amount of games is 10 games

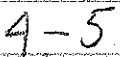
Player 2



Player 3



player 4



player 5

player 5 is in player 1, 2, 3 4 line ups so already played

Looking back:

player 1 plays all the players first. Since player one has already played player 2 player 1 does not get counted in player 2's line up. Player 5 does not have a line up because he already plays players 1, 2, 3 and 4 in their line up and they only need to play each other once. So it makes a total of 10 games.