

# GRAHAM AND THE FISCAL FOOTBALLERS

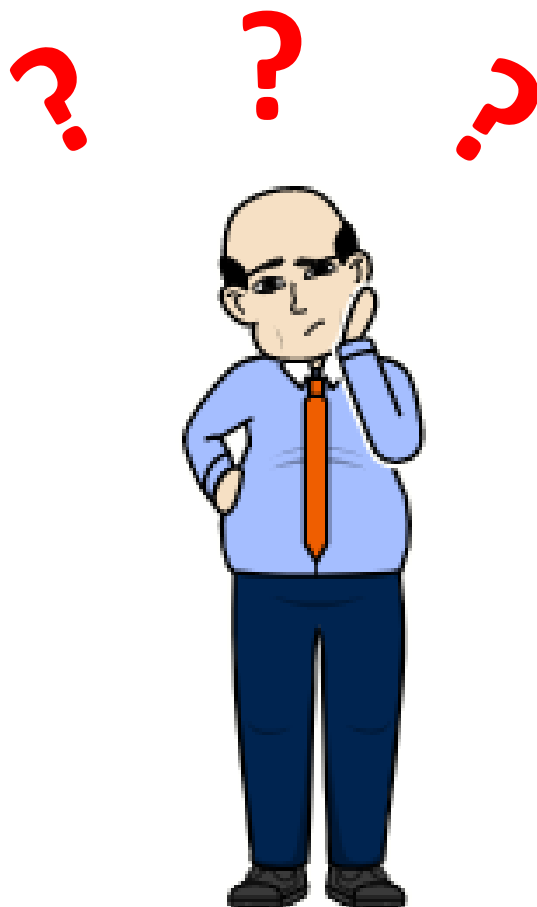
By Ila Banerji



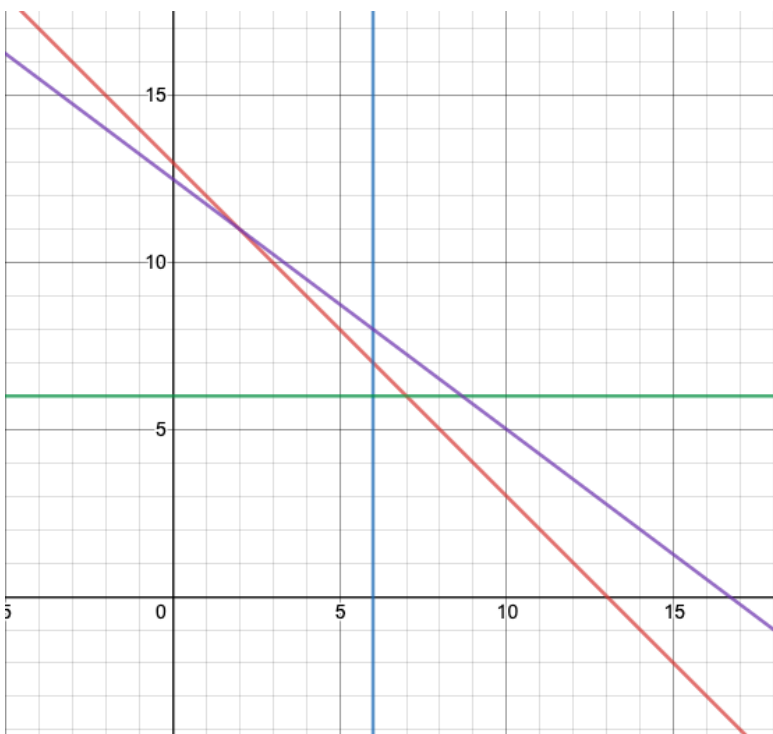
Graham Walters is the manager of a successful football team – the Birmingham Blasters. He has recently won the league and him and his team are all very happy.



Graham has been given £100,000 to spend on players as a reward. He has been told by the board that he needs to buy at least 13 players, defenders cost £6,000 and forwards cost £8,000 and he needs to have at least 6 of each. What should he do?



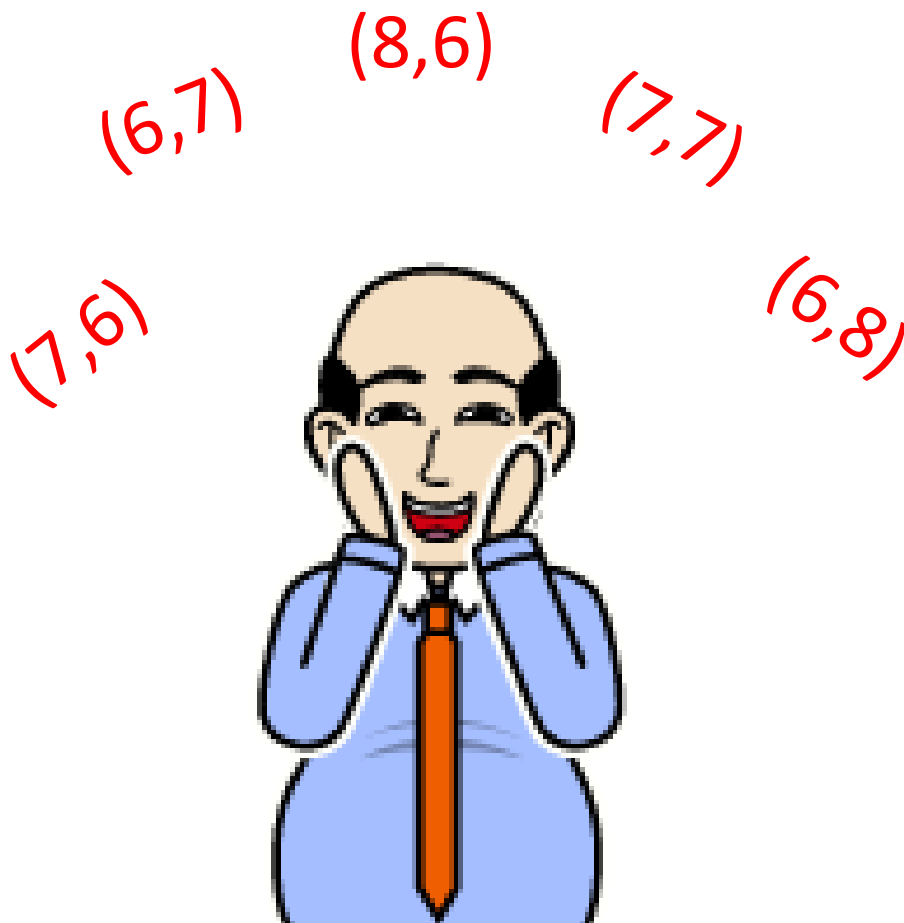
Graham has to find 3 inequalities first. X will be defenders and Y will be forwards. He chooses  $x+y \geq 13$ ,  $x \leq 6$ ,  $y \leq 6$ , and  $6x+8y \leq 100$ .



Now he has to find the area that outlines the possible combinations of defenders and forwards he can buy.



Graham has identified the 5 possible points on the graph that define the possible combinations of players he can by.



Graham and his players are so happy that they can buy the players they need to boost their team and help them win trophies!



