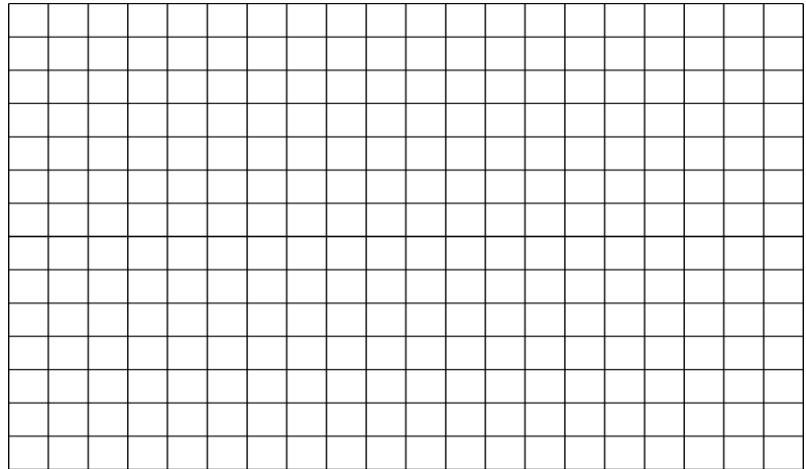


Lots of Linear Programming

1. Betty works a maximum of 20 hours per week programming computers and tutoring English. She receives \$15 per hour for programming and \$10 per hour for tutoring. She wishes to work between 3 and 8 hours per week on programming, but always to give more time to tutoring. To maximize the amount she earns, how many hours should she work at each job?



2. Josh practices football and soccer a maximum of 15 hours a week. He wishes to spend 2 to 5 hours a week on soccer. He always wants to give at least as much or more time to football than to soccer. Josh's uncle will give him \$3 for every hour of football he practices. His grandmother will give him \$4 for every hour he plays soccer. What is the maximum amount of money Josh can earn by playing these sports?

