Timing Traffic Signals  
Name __________________
Summer 2008

First: Assume you are driving on Dodge street at 30 mph with no other traffic and yellow lights are not an option. You start at 10th street and want to hit all the lights green. At what time must the lights change so they are green when you reach them? Traffic signals are present at 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th and 24th streets.

What you need to know: distance = rate x time, (5280 feet = 1 mile), (3600 seconds = 1 hour)

Fill in the blanks with the time that you will be crossing each intersection.

10th ____________ 0 minutes, 0 seconds 17th ________________
13th ________________ 18th ________________
14th ________________ 19th ________________
15th ________________ 20th ________________
16th ________________ 24th ________________
Second: 13th street crosses Dodge and the drivers on both streets want their lights to be green. The driver on Dodge starts at 10th traveling 30 miles per hour and the driver on 13th starts at Harney traveling 35 miles per hour. Who will get to the intersection first? Where would the driver on 13th have to start so they get to the intersection at the same time?