

**DePaul Center for Urban Education
Chicago Math Connections**

This project is funded by the Illinois Board of Higher Education through the
Dwight D. Eisenhower Professional Development program

Topic: Walking through Chicago

Goal(s):6,7

Skills: Utilizing map skills and calculating proportions to solve rate and distance problems

What's the context?

Traveling on foot between places in Chicago.

Which data will students use?

Map of Chicago

What will students learn from this project?

Know how – what will they be able to do better?

Create and utilize proportions

Identify locations and determine distances on a map

Know what – what idea(s) will they clarify through the project?

Develop skills to estimate distances and travel times between points in Chicago

What's the challenge?

1) Choose 5 locations within walking of a central point in Chicago (Harold Washington library).

2). Calculate the distance between the central point and the five locations you have chosen.

3). If the average person walks four miles per hour, calculate how long it would take to walk from this central point to each of the five different locations.

- *Explain to students that 8 blocks equals one mile, or one block equals 1/8 mile

Checkpoint: Compare your results with a classmate. As a pair, figure out how much faster it would be to travel by bicycle at a rate of 20 miles per hour.