**New York City Cab Fares**

Use the following information about New York City cab fares to answer the questions below.

Initial fare............$2.50

Each 1/5 mile (4 blocks) $0.40

Each 1 minute idle.....$0.40

Additional riders….... FREE

1. Zarela, who is an actuary, travels to work at 7 a.m. Her cab travels different routes depending on traffic, but it is usually idle for a total of 6 minutes. Write an expression to determine the cab fare, *F,* Zarela will pay if she travels *m* miles to work.
2. Use your expression to find the cab fare if Zarela has a 1.8 mile commute to work.
3. Zarela knows her trip is 1.8 miles long. On the way home from work at 5 p.m., she never knows how long the cab will be idle. If she has $15.00 for the cab ride home and wants to include a $2.00 tip, how long can the cab be idle on her way home from work? Use your expression from question (1) to answer this question.
4. Estimate how much it would cost you to take a cab ride from Grand Central Station to the Empire State Building. Use the Internet to find the distance. Assume that the cab would be idle for 3 minutes.