

Linear Function Application Homework Problems

1. In 1990, Americans bought an average of 142 meals per year at restaurants. This choice continued to grow in popularity and in the year 2010, the average reached 220 meals per year. **Show all work** and find the following:
 - a) Write a linear equation **in slope-intercept form** that represents the relationship between the year and the average number of meals eaten in a restaurant each year. Let the x-coordinate represent the year.

b) How many meals were eaten at a restaurant in the year 2007?

c) In what year will families eat an average of 300 meals per year?