## EXAMPLE 6 Analyzing an Actuarial Graph

Discuss the actuarial graph. Does it seem reasonable for life expectancy in America today?



## SOLUTION

The graph shows several things.

- As a person gets older, the probability that the person will die during the year increases.
- Males have a slightly greater probability of dying than females. For instance, at age 90 , a male has a $17 \%$ chance of dying during the year, while a female has only a $14 \%$ chance of dying during the year.

The graph seems reasonable for life expectancy in America today.

## $\sqrt{ }$ Checkpoint

a. Discuss the actuarial graph.
b. How would an actuary use the data?
c. Does the graph seem reasonable? Explain your reasoning.


