

**STUDY LINK**  
**12•8**

# Rate and Ratio Problems



- The average American eats about 250 eggs per year. At this rate, about how many eggs will the average American eat in . . .
  - five years? \_\_\_\_\_ (unit)
  - $\frac{1}{12}$  of a year? \_\_\_\_\_ (unit)
- The average fifth grader can eat  $\frac{3}{8}$  of a pizza for lunch. At this rate, how many lunches will it take for an average fifth grader to eat the equivalent of 3 whole pizzas? \_\_\_\_\_ (unit)
- In 1975, a man in Washington state ate 424 clams in 8 minutes. At this rate, how many would he eat . . .
  - in  $\frac{1}{4}$  of this time? \_\_\_\_\_ (unit)
  - in  $2\frac{1}{2}$  times as much time? \_\_\_\_\_ (unit)
- A deck has 52 playing cards. In two decks,
  - what is the ratio of 2s to 10s? \_\_\_\_\_
  - what is the ratio of Hearts to the total number of playing cards? \_\_\_\_\_
  - what is the ratio of Jacks to Kings and Queens? \_\_\_\_\_

**Practice**

5.  $3\frac{4}{7} * \frac{8}{8} =$  \_\_\_\_\_

6.  $3n + 2n = 25$

$n =$  \_\_\_\_\_

7.  $25 = 2n$

8.  $12.5 * n = 100$

$n =$  \_\_\_\_\_

$n =$  \_\_\_\_\_