20. ◆ **TAKS REASONING**   The back-to-back stem-and-leaf plot shows the numbers of days the House of Representatives and the Senate spent in session each year from 1996 to 2004.

    a. What was the median number of days the House of Representatives spent in session? the Senate?

    b. What is the range of the number of days the House of Representatives spent in session? the Senate?

    c. *Compare* the data for the House of Representatives and the Senate. What does the distribution of the data tell you?

Days in Session

House		Senate
9 0	11	
3 2	12	
7 5 3 2	13	2 3
2	14	1 3 9
	15	3
	16	2 7
	17	3

Key: 2 | 14 | 1 = 142, 141

21. MAYFLOWER The known ages (in years) of adult male passengers on the *Mayflower* at the time of its departure are listed below.

    21, 34, 29, 38, 30, 54, 39, 20, 35, 64, 37, 45, 21, 25, 55, 45, 40, 38, 38, 21, 21, 20, 34, 38, 50, 41, 48, 18, 32, 21, 32, 49, 30, 42, 30, 25, 38, 25, 20

    a. Make a stem-and-leaf plot of the ages.

    b. Find the median age and range of the ages.

    c. According to one source, the age of passenger Thomas English was unknown at the time of the *Mayflower's* departure. What is the probability that he was 18–29 years old? *Explain* your reasoning.

Replica of the *Mayflower*

22. CHALLENGE Refer to the histogram shown.

    a. Find the midpoint of each interval. Multiply each midpoint by the frequency of its interval. Add these products. Divide the sum by the sum of all the frequencies.

    b. Does the your final result in part (a) best approximate the mean, the median, or the mode of the data? *Explain* your answer.
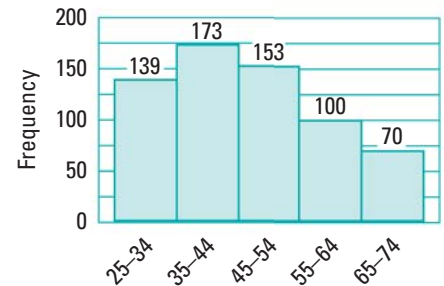
TAKS PRACTICE at classzone.com

MIXED REVIEW FOR TAKS

23. ◆ **TAKS PRACTICE** Loren purchased 14 boxes of floor tiles. Each box contains 25 square tiles. If Loren wants to tile a floor that is 17 tiles wide and 18 tiles long, which procedure can be used to determine whether there will be enough tiles to complete the job? *TAKS Obj. 10*

    (A) Multiply 17 by 14.

    (B) Subtract 17 from 25 and then multiply by 14.

    (C) Multiply 14 by 25 and then compare the product with the product of 17 and 18.

    (D) Multiply 17 by 18 and then divide the product by 25 and compare the quotient with 14.