

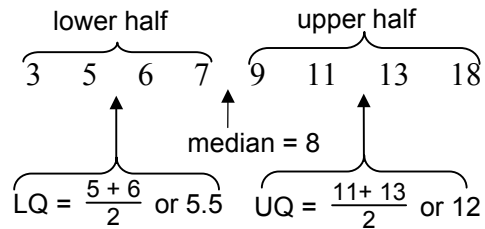


b. {6, 11, 3, 18, 7, 5, 13, 9}

**Step 1** List the data from least to greatest. Then find the median.

$$\begin{array}{cccccccc}
 3 & 5 & 6 & 7 & 9 & 11 & 13 & 18 \\
 & & & \uparrow & & & & \\
 \text{median} & = & \frac{7+9}{2} & \text{ or } & 8
 \end{array}$$

**Step 2** Find the upper and lower quartiles.



The interquartile range is  $12 - 5.5$  or 6.5.

### Example 3 Interpret and Compare Data

**MARRIAGE** The ages at which men and women first get married are listed in the stem-and-leaf plot.

Men		Women
9	1	8 8 9
8 6 3 3 2	2	0 1 1 3 5 9
9 7 6 5 5 4 0	3	2 4 7
6 2	4	1
1	5	3 6
4	6	

$0|3 = 30$  years       $2|3 = 23$  years

a. What is the median age for each group?

The median age for the men is 35.

The median age for the women is 25.

b. Compare the range for the men and the women.

The range for the men is  $64 - 19$  or 45 years and the range for the women is  $56 - 18$  or 38 years. So, the ages vary more for the men than the women.